



## RESOURCE AND PATIENT MANAGEMENT SYSTEM

# KERNEL TOOLKIT (XT)

Patch Notes

**Version 7.3**  
**April 2003**

**Information Technology Support Center**  
**Division of Information Resources**  
**Albuquerque, New Mexico**

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# 1.0 Kernel Toolkit Version 7.3 Patch XT\*7.3\*1001

## 1.1 XT\*7.3\*1 SEQ #1: Addendum to Install Guide

Category: Informational

### 1.1.1 Descriptions

1. Page 15, item #2 - If the ^RTHIST global was established prior to installing version 4.0 of MSM it should be deleted and re-established. Note that the 'NOKILL' flag may have been set for all globals. This should be removed to avoid an 'ACCESS DENIED' error.
2. Page 15, item #3 - Routines should be moved to BOTH the file and shadow server for fail-safe reasons.
3. Page 17 - The setting for the REQUIRED VOLUME SET field may be set to YES if desired.
4. Page 19,33 - Recommended partition sizes are now set at 40K.
5. Page 51, item 3b - Repeat this procedure for all other cpu's except the shadow servers.

### 1.1.2 Routines

No routines included

### 1.1.3 Installation Instructions

No installation required

## 1.2 XT\*7.3\*2 SEQ #2: XTCMFILN-Infinite loop

Category: Routine

### 1.2.1 Description

Using the option, move host file to MailMan, an infinite loop will occur when one enters a question mark at the 'ENTER A HOST FILE:' prompt. Users can remain on the system during installation of the routine.

### 1.2.2 Routine Information:

Routine Name: XTCMFILN

### 1.2.3 Installation Instructions

Manual installation:

Routine Checksum:

New checksum

XTCMFILN value = 4137879

## 1.3 XT\*7.3\*8 SEQ #3: Fix Flow Chart with Parameter passing.

**Category:** Routine

### 1.3.1 Description

This patch fixes problems that the 'Flow Chart from Entry Point' option was having with parameter passing. This problem was reported in NOIS: ISB-0594-30120

### 1.3.2 Routine Information

<b>Routine</b>	<b>new checksum</b>
XTFC1	14453171
XTFCE	5996229
XTFCE1	6490782

### 1.3.3 Installation

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package in this message onto your system.
2. Answer NO to the question: 'Shall I preserve what is on disk in a separate back-up message ?'
3. From the 'Installation Menu' of the KIDS menu, run the option 'Verify Checksums in Transport Global' and verify that all routines have the correct checksum.
4. This patch can be loaded with users on the system.
5. From the 'Installation Menu' of the KIDS menu, run the option 'Install Package(s)' Select the package 'XT\*7.3\*8' and proceed with install.



## 1.4 XT\*7.3\*9 SEQ #4: %Z Editor Not Finding New Tags Correctly

**Category:** Routine

### 1.4.1 Description

It was found that when doing a save or move in the ^%Z editor if the ending point passed a second TAG then the save or move would never end.

### 1.4.2 Routine Information

Routine	new checksum
ZTEDIT2	12431351

### 1.4.3 Installation

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package in this message onto your system.
2. Answer NO to the question: 'Shall I preserve what is on disk in a separate back-up message ?'
3. From the 'Installation Menu' of the KIDS menu, run the option 'Verify Checksums in Transport Global' and verify that all routines have the correct checksum.
4. This can be installed at any time with users on the system.
5. From the 'Installation Menu' of the KIDS menu, run the option 'Install Package(s)' Select the package 'XT\*7.3\*9' and proceed with install.
6. After installing this patch, you need to move ZTEDIT2 from your production account to the manager account. Then in the manager account: DO ^ZTEDIT. This will build the fixed nodes into the ^%Z global. If your ^%Z global has world write protection the update can be done from the production account. (MSM: move to mgr accounts on other systems and DO ^ZTEDIT), (VAX: No need to have this in a MAP set)

## 1.5 XT\*7.3\*5 SEQ #5: XUCPFRMT Checking Wrong Return Value

**Category:** Routine

### 1.5.1 Description

>Change log # 1062 Version:7.3

>Desc.

**Summary:**

Line XUCPFRMT+7 and +8 references the DIR variable 'X' rather than 'Y'

**NOIS Reference Number:**

None

### 1.5.2 Routine Information:

Routine	Checksum Before	Checksum After	Second Line
XUCPFRMT	13051323	13074458	::7.3;TOOLKIT;***5**;Apr 25, 1995

**Routine Information:**

Routine Name: XUCPFRMT

### 1.5.3 Installation

Applicable to \*\*\* VMS \*\*\* systems only. Users can remain on the system during installation of this patch.

## 1.6 XT\*7.3\*6 SEQ #6: MPM Report Fixes

**Category:** Routine

### 1.6.1 Description

\$TXT Created by ORMSBY,SKIP at KERNEL.ISC-SF.VA.GOV on TUESDAY, 08/08/95 at 12:31

**For MSM Sites Only**

This patch corrects several reported problems. The following is a description of the problems fixed:

**Routine: XUCS4R**

1. When using the option 'System Statistical Report (By VG/Date)', it printed 0 for the 'TOTAL Logical Write Operations' Fix: print the correct '^' piece.

2. When using either 'System Statistical Report (By VG/Date)' or 'System Statistical Report (Date/VG)' and printing the report to a printer, sub-headers for what volume group the statistical information was for were not being printed.

**Routine: XUCS8RGA**

When using the option 'Ave. Response Time Graph' and printing the results to a printer sub-headers were not being printed for what volume group the graph was for. This was reported in NOIS WRJ-0795-11400.

**Routine: XUCSCDG**

When queuing this report the Ave. Response Time Graph would print instead of the %CPU & %DISK Utilization Graph. Thanks for the report.

All of the following routines (including the above) were modified for multi-site national support:

XUCS1RA, XUCS1RBA, XUCS2RA, XUCS2RBA, XUCS4RB, XUCS6R,  
XUCS8R, XUCS8RB, XUCSCDGA, XUCSCDR, XUCSCDRB, XUCSUTL3

## 1.6.2 Routine Information

**Routine check sums BEFORE installation**

XUCS1RA = 11144520  
XUCS1RBA = 6176633  
XUCS2RA = 6913779  
XUCS2RBA = 4179178  
XUCS4R = 11653758  
XUCS4RB = 9766381  
XUCS6R = 6132484  
XUCS8R = 12237493  
XUCS8RB = 10517473  
XUCS8RGA = 4599537  
XUCSCDG = 6572594  
XUCSCDGA = 4312009  
XUCSCDR = 9885385  
XUCSCDRB = 8466812  
XUCSUTL3 = 11276783

**Routine check sums AFTER installation**

XUCS1RA = 11082634  
XUCS1RBA = 6121877  
XUCS2RA = 6851893  
XUCS2RBA = 4124422  
XUCS4R = 11613596  
XUCS4RB = 9713051  
XUCS6R = 6032434

XUCS8R = 12175607  
XUCS8RB = 10464728  
XUCS8RGA = 4392226  
XUCSCDG = 6572454  
XUCSCDGA = 4200026  
XUCSCDR = 9823499  
XUCSCDRB = 8414195  
XUCSUTL3 = 11346798

### 1.6.3 Installation

**Installation notes:**

It is not necessary for users to be off the system, although a <CLOBR> could be incurred if a user was using any of the above reports at the time of installation. Also, it is only necessary to move the patched routines to the Compute(s) and Print(s) Servers.

## 1.7 XT\*7.3\*7 SEQ #7: VPM-Incorrect ENQ Data

**Category:** Routine

### 1.7.1 Description

\$TXT Created by CLEMENS,JOHN at ISC-SF.VA.GOV on WEDNESDAY, 11/29/95 at 14:08.

Patch to XUCMVPM1 to correct improper parsing of LOCKING data.

### 1.7.2 Routine Information

New Routine Checksum: XUCMVPM1 value = 13045999

### 1.7.3 Installation Notes

1. XUCMVPM1 is a capacity management routine for VAX/ALPHA systems only. MSM sites do not need to install.
2. Users can remain on the system during installation of the routine.

## 1.8 XT\*7.3\*12 SEQ #8: Patch to a Patch

Associated patches: (v)XT\*7.3\*6 must be installed BEFORE `XT\*7.3\*12'

**Category:** Patch for a Patch

## 1.8.1 Description

**\*\* For MSM Sites Only \*\***

Problem description: In patch XT\*7.3\*6 the routine XUCSUTL was mistakenly sent, when the routine that actually should have been sent was XUCSUTL3. This patch corrects the above problem.

## 1.8.2 Routine Information

### Change List:

XUCSUTL - none

XUCSUTL3 - fixes a bug reported by the ISC-SF for an UNDEF error when the national MPM database received data from a site that was not in the Institution file.

### Checksum

Routine	Before Patch	After Patch	Patch List
XUCSUTL	2837344	2837344	12
XUCSUTL3	11276783	11346798	6,12

### Routine Information

Routine Name: XUCSUTL

Routine Checksum:

Routine Name: XUCSUTL3

Routine Checksum:

## 1.9 XT\*7.3\*3 SEQ #9: Undefined in XUCSTME

**Category:** Routine

Description:

\*\*\*\* PATCH FOR 486 SITES ONLY \*\*\*\*

Subject: <UNDEF>+47^XUCSTME

Priority: Mandatory

Description:

This patch to the routine, XUCSTM, prevents an undefined in XUCSTME due to incorrect references to MAX TABLE SIZE in MSM RTHIST SITE FILE (8987.1).

NOIS #: LIN-0795-41528

### 1.9.1 Installation

Users may remain on the system while installing this routine.

1. Disable the following tasks.
  - a. XUCSTASK AM RTHIST      AM MSM RTHIST Task Option
  - b. XUCSTASK FILE UPDATE AUTO      Tasked CM File Update
  - c. XUCSTASK PM RTHIST      PM MSM RTHIST Task Option
  - d. XUCSTASK PURGE CM DATA      Auto Purge of CM Data
2. Load routine from PackMan message.
3. After installation of this patch, the routine only needs to be distributed to the VAH UCI of the Compute and Print server(s).
4. Re-enable the tasks listed in #1 above.

### 1.9.2 Routine Information

#### **Routine Summary**

XUCSTM Second line: ;;7.3;TOOLKIT;\*\*3\*\*;;Apr 25, 1995

Before patch: XUCSTM    value = 6457738

After Patch: XUCSTM    value = 6488785

#### **Manual Edit:**

>ZL XUCSTM

>insert after line: TBLFUL+1

>    . I +XUCSTBS<700 S XUCSTB=1500

>ZS

#### **Routine Information**

Routine Name: XUCSTM

Routine Checksum:

## 1.10    XT\*7.3\*13 SEQ #10: Misc. I/O Clean Up

Associated patches: (v)XT\*7.3\*6    <=< must be installed BEFORE `XT\*7.3\*13'

**Category:** Routine

### 1.10.1 Description

\$TXT Created by ORMSBY,SKIP at REL.KERNEL.ISC-SF.VA.GOV (KIDS) on TUESDAY, 04/23/96 at 10:13

**\*\* Only MSM sites need to install this patch \*\***

This patch fixes I/O problems when selecting a printer and not queuing the report. It also fixes problems when selecting the BROWSER device.

### 1.10.2 Installation

1. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
2. Answer NO to the question: 'Shall I preserve what is on disk in a separate back-up message ?'
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
4. On the KIDS menu, under the 'Installation' menu, use the option 'Verify Checksum in Transport Global' and verify that all routines have the correct checksums.
5. On the KIDS menu, under the 'Installation' menu, use the option 'Install Package(s)'. Select the package 'XT\*7.3\*13' and proceed with install.
6. Move the routines to the other Compute/Print servers (the easiest way is to answer Yes to the move routine question during the install step).

Installation Note: Users may remain on the system when installing this patch, although if anyone is using any of the MPM reports they may get a <CLOBR> error. This patch maybe queued to run.

### 1.10.3 Routines

#### Checksums

Name	Before	After	Patch List
XUCS1R	11414218	11268327	13
XUCS1RB	11341248	11195357	13
XUCS2R	7996923	7851032	13
XUCS2RB	8006304	7860413	13

Name	Before	After	Patch List
XUCS6R	6032434	5887144	6,13
XUCS8R	12175607	12029716	6,13
XUCS8RB	10464728	10318837	6,13
XUCS8RG	5086949	4941058	13
XUCSCDG	6572454	6508203	6,13
XUCSCDR	9823499	9677608	6,13
XUCSCDRB	8414195	8268304	6,13

**Routine Information:**

Routine Name: XUCS1R

Routine Checksum:

Routine Name: XUCS1RB

Routine Checksum:

Routine Name: XUCS2R

Routine Checksum:

Routine Name: XUCS2RB

Routine Checksum:

Routine Name: XUCS6R

Routine Checksum:

Routine Name: XUCS8R

Routine Checksum:

Routine Name: XUCS8RB

Routine Checksum:

Routine Name: XUCS8RG

Routine Checksum:

Routine Name: XUCSCDG

Routine Checksum:

Routine Name: XUCSCDR

Routine Checksum:



Routine Name: XUCSCDRB

Routine Checksum:

## 1.11 XT\*7.3\*14 SEQ #11: MPM Morning Report

### Associated patches:

(v)XT\*7.3\*6 must be installed BEFORE `XT\*7.3\*14'

(v)XT\*7.3\*12 must be installed BEFORE `XT\*7.3\*14'

**Category:** Data Dictionary, Routine, Enhancement (Mandatory)

### 1.11.1 Description

\$TXT Created by ORMSBY,SKIP at REL.KERNEL.ISC-SF.VA.GOV (KIDS) on MONDAY, 04/15/96 at 10:27

**\*\* Only MSM sites need to install this patch \*\***

There are no known NOIS's associated with this patch

#### Enhancement #1

As suggested both by the field and 486 Customer Service Team, a "Morning Report" in the form of a mail message, will be sent to the person(s) listed in the LOCAL CMP RECIPIENTS multiple of the site parameter file #8987.1. The following is a sample report:

Node	540CSA	540CSB	540FSA	540FSB	540FSC	540PSA
CPU Usage %	61	58	8	4	11	37
Disk Usage %	30	26	47	28	50	14
Response Time Sec	0.56	0.62				
RTs<2 Seconds %	96	96				
Responses/S	9.9	10.9				
Ave. # Jobs	51	51	10	10	10	26
Term InChar/S	19	17				24
Term OutChar/S	971	894		0	0	457
M Commands/S	5958	5917	341	206	982	4059
Global Gets/S	1139	1116	41	23	35	1089
Global S&Ks/S	58	55	9	9	39	46
Disk Reads/S	50	45	21	9	11	19
Disk Writes/S	5	4	2	2	8	6
Read Cache %	93	93	92	93	96	96
Write Cache %	86	86	51	67	67	81
DDP Requests/S	18	17	4	3	14	
RVG Requests/S	545	568				443
RVG Cache %	93	94				93
RTH Sessions	2	2	2	2	2	2

Routines affected - XUCSTME, XUCSRV

**Enhancement #2**

The routines that are used nationally to compile monthly comparisons can now be used locally. One menu, with five options, and one option have been added to the CM REPORTS menu - they are:

[XUCSX DAILY REPORT] (option)  
[XUCSX LOCAL XSITE REPORTS] (menu)  
[XUCSX LOCAL XSTE PREF] (option)  
[XUCSX LOCAL XSITE RT] (option)  
[XUCSX LOCAL XSITE SYSSTATS] (option)  
[XUCSXGR LOCAL XSITE GREF ALL] (option)  
[XUCSXGR LOCAL XSITE GREF VG] (option)

New Routines - XUCSXCD, XUCSXDR, XUCSXGR, XUCSXRT, XUCSXST

**Enhancement #3**

A new field was added to the RAW STATISTICS multiple of file #8987.2. This field is called RVG HITS and represents the number of RVG cache hits. By using the following formula you can now calculate the RVG cache efficiency.  $\text{RVG HITS/TOTAL RVG REQUESTS} \times 100 = \% \text{eff.}$

Routines affected - XUCS4E, XUCS4R, and XUCS4RB, XUCSTME

**Enhancement #4**

A new field was added to the GLOBAL REFERENCES multiple of file #8987.2. This field is called GLOBAL LOCATION, and it contains the Volume Group where a particular global is located, i.e. FDA, CSA, etc.

Routine affected - XUCS2E

**Enhancement #5**

It is no longer necessary to schedule separately the purge of file #8987.2. The purge is now done during the up date of file #8987.2. The option [XUCSTASK PURGE CM DATA] should be \*Unscheduled\*.

Routine affected - XUCSTME

**Enhancement #6**

The option XUCSTASK FILE UPDATE AUTO (routine: XUCSTME) will now do the following functions:

- Load the raw RTHIST data into file #8987.2
- Create the MPM Morning Report and mail it to the Local CMP Recipients.
- Create the server message and mail it to the National Data Base.
- Purge old data from file #8987.2.

Unreported Bug Fix - When asking for a date range for reports, the user would always be asked for volume sets. A new variable can now be passed to entry point A3^XUCSUTL3 called XUCSNOA2 - when set (i.e. \$D(XUCSNOA2)>0) then the volume set questions will not be asked. Also, when getting the last date for data in file #8987.2, it was always assumed to be T-1, this has been corrected to display the true last date in file #8987.2.

**Test Sites:**

Erie, PA

Muskogee, OK

Beckley, WV

White River Junction, VT

Lincoln, NE

White-City, OR

### 1.11.2 Installation

Installation Notes: This patch can be queued to run at anytime except when the option [XUCSTASK FILE UPDATE AUTO] 'Tasked CM File Update' is running. Of course since some of the routines being changed deal with reports, <CLOBR> errors could be reported if someone is running a report.

1. Use TaskMan's Schedule/Unschedule to \*unschedule\* the following option: [XUCSTASK PURGE CM DATA] 'Auto Purge of CM Data'. See Enhancement #5 above.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. Answer NO to the question: 'Shall I preserve what is on disk in a separate back-up message ?'
4. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
5. On the KIDS menu, under the 'Installation' menu, use the option 'Verify Checksum in Transport Global' and verify that all routines have the correct checksums.
6. On the KIDS menu, under the 'Installation' menu, use the option 'Install Package(s)'. Select the package 'XT\*7.3\*14' and proceed with install.
7. Move the routines to the other Compute/Print servers only.

## 1.11.3 Routines

**Checksums**

<b>Name</b>	<b>Before</b>	<b>After</b>	<b>Patch List</b>
XUCS2E	5426963	5731962	14
XUCS4E	1556880	1693814	14
XUCS4R	11613596	12001291	6,14
XUCS4RB	9713051	10100746	6,14
XUCSRV	5969322	5755562	14
XUCSTME	13223145	13388433	14
XUCSUTL3	11346798	11524190	6,12,14
XUCSXCD	*new*	6351363	14
XUCSXDR	*new*	11901373	14
XUCSXGR	*new*	7068507	14
XUCSXRT	*new*	5016229	14
XUCSXST	*new*	5797377	14

**Routine Information:**

Routine Name: XUCS2E

Routine Checksum:

Routine Name: XUCS4E

Routine Checksum:

Routine Name: XUCS4R

Routine Checksum:

Routine Name: XUCS4RB

Routine Checksum:

Routine Name: XUCSRV

Routine Checksum:

Routine Name: XUCSTME

Routine Checksum:

Routine Name: XUCSUTL3

Routine Checksum:

Routine Name: XUCSXCD

Routine Checksum:

Routine Name: XUCSXDR

Routine Checksum:

Routine Name: XUCSXGR

Routine Checksum:

Routine Name: XUCSXRT

Routine Checksum:

Routine Name: XUCSXST

Routine Checksum:

## 1.12 XT\*7.3\*11 SEQ #12: XTLATSET and other TK fixes

Category: Routine

### 1.12.1 Description

FORUM # 18670217 This message asked for the return of the routine checksum. It turned out that this was a local mod, but one that was useful to all. This change has been incorporated in this patch to the %ZTPP routine. The checksum value was found to have a weakness in that it wouldn't catch if the order of lines changed. KIDS uses a new version that will catch this kind of change. Because of this the patch will calculate both the old and new checksum values and displays them in the following way RSUM 7921662/11772536 so that both values are printed at the top of the first page. It is not a cryptographic hash.

The CS ALPHA team asked for a change to the XTLATSET routine to change the setup of the LAT device from /noqueue to /queue.

Under the new error trapping in DSM the VMS EDT editor call was getting errors if the input file was null and there was no text added. This has been fixed in XTEDTVXD

XTSUMBLD has been changed to work off the KIDS build file.

### 1.12.2 Routines

Routine	New checksum
XTEDTVXD	1531100
XTLATSET	6400569
XTSUMBLD	11338949
ZTPP	7877336

### 1.12.3 Installation

1. These routines are usually mapped on systems that allow mapping, so you will need to disable mapping for the effected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
4. On the KIDS menu, under the 'Installation' menu, use the following options:
  - Print Transport Global
  - Compare Transport Global to Current System
  - Verify Checksums in Transport Global
  - Backup a Transport Global
  - Install Package(s)
5. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).
6. After installing this patch, you need to move the following routine from your productions account to the manager account:
  - ZTPP and rename to %ZTPP
  - Example: ZL ZTPP ZS %ZTPP
7. On MSM move the routines to the other servers. AXP Sites, after patch has installed, rebuild your map set.

## 1.13 XT\*7.3\*17 SEQ #13: VPM Update-System Response Time

**Category:** Routine, Enhancement (Mandatory), Data Dictionary

### 1.13.1 Description

\$TXT Created by CLEMENS,JOHN at REL.KERNEL.ISC-SF.VA.GOV (KIDS) on WEDNESDAY, 07/10/96 at 13:40

This \*KIDS\* patch contains updates to the VAX/Alpha Performance Monitor (VPM).

Make sure you have installed the Kernel patch, XU\*8.0\*35 (containing ZOSV2VXD).

1. It introduces a new algorithm permitting VPM to compute and store system RESPONSE TIME. A response event is defined as the elapsed time beginning at the moment a user presses the RETURN/ENTER key and ending at the start of the next read. Response time is the average of the response events for a given period of measurement. As with other VPM metrics, response time raw data will be stored for each session and a daily average for the workday will be computed and stored in file 8986.6, tolerance limits will be computed, data will be included in the morning summary report, and events outside of your expected range will be identified.
  - a. Bernstein Response Time Monitor options will be deleted.
  - b. The file CM BERNSTEIN DATA (8986.098) will be replaced with a new file to support VPM response time data.
  - c. Two new metrics will be added to the CM METRICS FILE:
    - RTM-VPM Response Time
    - RSP-Response Events/second
2. This updates the VMS PERFORMANCE MONITOR to use Kernel 8's host file management utilities in ^%ZISH. Note: Kernel patch XU\*8.0\*24 addresses some problems encountered with these utilities.

### 1.13.2 Routines

**New Checksums:**

XUCMNIT value = 15387419

XUCMNIT2 value = 17426297

XUCMNIT4 value = 12158370

XUCMNT3A value = 10755761

XUCMVPI value = 6254847

XUCMVPM value = 4073012  
XUCMVPM1 value = 11910365

**Routine Information:**

Routine Name: XUCMNIT  
Routine Checksum:

Routine Name: XUCMNIT2  
Routine Checksum:

Routine Name: XUCMNIT4  
Routine Checksum:

Routine Name: XUCMNT3A  
Routine Checksum:

Routine Name: XUCMVPI  
Routine Checksum:

Routine Name: XUCMVPM  
Routine Checksum:

Routine Name: XUCMVPM1  
Routine Checksum:

### 1.13.3 Installation

1. These routines may be mapped on systems that allow mapping, so you will need to disable mapping for the effected routines.
2. Use the 'Install/Check Message' option on the PackMan menu. This option will load the KIDS package in this message onto your system.
3. Answer NO to the question: 'Shall I preserve what is on disk in a separate back-up message ?'
4. From the 'Installation Menu' of the KIDS menu, run the option 'Verify Checksums in Transport Global' and verify that all routines have the correct checksum.
5. This patch can be installed with users on the system.
6. Disable VPM using the option, Enable/Disable VPM. In MGR, enter the RTH Utilities (D ^RTH) and stop RTHIST if it is running. Repeat this on all nodes.
7. Use the KIDS menu to complete the installation.



8. In the VMS directory containing VPM files, delete files using the command, "DELETE XUCM\*.COM.\*"
9. Sign back in to DSM and run the option, Setup Performance Monitor. This will create a new set of VMS Monitor and RTHIST drivers.
10. Re-enable VPM.
11. Using Taskman's One Time Option Queue, run the option, XUCM TASK NIT. This will restart RTHIST data collections on all nodes.

## 1.14 XT\*7.3\*15 SEQ #14: Subject: MPM NT/Unix Support

Associated patches:

(v)XT*7.3*3	must be installed BEFORE `XT*7.3*15'
(v)XT*7.3*6	must be installed BEFORE `XT*7.3*15'
(v)XT*7.3*12	must be installed BEFORE `XT*7.3*15'
(v)XT*7.3*13	must be installed BEFORE `XT*7.3*15'
(v)XT*7.3*14	must be installed BEFORE `XT*7.3*15'

**Category:** Data Dictionary, Routine

### 1.14.1 Description

\* Only MSM Sites need to install this Patch \*

NT/UNIX support

#### **NOIS# GRI-0396-40902 and BDC-1296-N1654**

The problem was a <DIVER> error in routine XUCSCDE. In investigating the problem it was discovered that MSM's RTHIST does not sample the system for CPU and DISK usage and number of jobs running at the sample time. MSM is aware of the problem (MSM call #30546) and there is no indication as of yet when the problem will be fixed.

This patch also increases the maximum number of total Mumps commands that can be stored. The current maximum value is 99999999, the new value is 9999999999.

The problem was if a "run away" job was running during the RTHIST run the TOTAL

Mumps commands would exceed the maximum value and all of the raw statistics would fail to be filed.

This patch also replaces the OS checks in %ZOSV2 with standard Kernel checks:

```
$$OSTYPE^%ZOSV $$VERSION^%ZOSV
```

Fixes problem in NOIS LAS-0796-60351

## 1.14.2 Routines

Routine List (CHECK^XTSUMBLD values):

Name	Before	After	Patch List
XUCS1E	5744464	5869170	15
XUCS2E	5731962	5888536	14,15
XUCS8E	2709944	2718707	15
XUCSCDE	3642152	4091741	15
XUCSCDG	6508203	6570082	6,13,15
XUCSPRG	4520058	4828057	15
XUCSTM	6488785	6674638	3,15
XUCSTME	13388433	13548298	14,15
XUCSUTL3	11524190	11581338	6,12,14,15

INSTALLATION NOTE: \*\*Installation Notes: This patch can be Queued to run at anytime \*except\* when options:

[XUCSTASK AM RTHIST] 'AM MSM RTHIST Task Option'

[XUCSTASK FILE UPDATE AUTO] 'Tasked CM File Update'

[XUCSTASK PM RTHIST] 'PM MSM RTHIST Task Option'

[XUCSTASK PURGE CM DATA] 'Auto Purge of CM Data' are scheduled to run or would be running.

### Routine Information

Routine Name: XUCS1E

Routine Checksum:

Routine Name: XUCS2E

Routine Checksum:

Routine Name: XUCS8E

Routine Checksum:

Routine Name: XUCSCDE

Routine Checksum:

Routine Name: XUCSCDG

Routine Checksum:

Routine Name: XUCSPRG

Routine Checksum:

Routine Name: XUCSTM

Routine Checksum:

Routine Name: XUCSTME

Routine Checksum:

Routine Name: XUCSUTL3

Routine Checksum:

### 1.14.3 Installation

1. The installation of this patch takes less than 2 minutes.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
4. On the KIDS menu, under the 'Installation' menu, use the following options:
  - Print Transport Global
  - Compare Transport Global to Current System
  - Verify Checksums in Transport Global
  - Backup a Transport Global
  - Install Package(s)
5. MSM Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).

## 1.15 XT\*7.3\*20 SEQ #15: XINDEX update and bug fix

**Category:** Routine

### 1.15.1 Description

This patch fixes most of the problems that have been raised with XINDEX. The use of root indirection still causes some problems: (i.e. \$O(@ABC(XYZ)@(123))

**NOIS: ISB-0494-30070, BRX-1296-10244, ISA-0497-11864**

Fix entries in the ROUTINE file that have a blank type if XINDEX does a save into the ROUTINE file.

**FORUM messages:**

%INDEX & Undetected Error [#11969353]

XINDEX mistakes [#17602138]

Undefined in XINDEX [#19627074]

XINDEX and \$TRANSLATE [#19927226]

Just in case [#20070553]

UNDEF IN XINDEX [#20406560]

Fixed problem with not checking for partial file sends. [#22935874]

Fixed problem with not checking call's to missing tags in routines not XINDEXed. [#24687607]

**XTSUMBLD:**

Has been updated to include the PRE, POST, and ENV check routines from a BUILD when using the CHECK entry point. [NOIS ISB-0896-31782] Fixed a bug if a BUILD did not have a package file link. Fixed a bug if a routine in the BUILD doesn't exist in the UCI.

**XTVNUM:**

Will see that each routine from a build has the patch number on the second line.

**%ZTPP:**

Fixes problems with not printing lines like label<linestart><cr>. [NOIS HOU-0297-71103]

**BUILD^XTRUTL:**

Takes the routines in a KIDS BUILD and generates the following list.

### 1.15.2 Routines

**Checksum**

Routine	Old	New	2nd Line
---------	-----	-----	----------

Routine	Old	New	2nd Line
XINDEX	7227772	8229005	**20**
XINDX1	6096231	6091882	**20**
XINDX10	12585180	13440865	**20**
XINDX11	7471101	7648100	**20**
XINDX2	5054188	5457656	**20**
XINDX3	3897455	3946423	**20**
XINDX4	4711071	5192692	**20**
XINDX5	6259999	7001485	**20**
XINDX51	9529173	9238490	**20**
XINDX52	2298647	2275540	**20**
XINDX53	4122188	4208616	**20**
XINDX6	10179476	10238332	**20**
XINDX7	7575886	7680200	**20**
XINDX8	6101428	6232391	**20**
XINDX9	4045898	4248028	**20**
XTRUTL	3298585	3298825	**20**
XTRUTL		1728450	**20**
XTRUTL		2361405	**20**
XTSUMBLD	11338949	12015543	**11,20**
XTVNUM	7898211	9944358	**20**
ZTP1	11606940	8017158	**20**
ZTPP		7869052	**4,11,20**

**Routine Information:**

Routine Name: XINDEX

Routine Checksum:

Routine Name: XINDX1

Routine Checksum:

Routine Name: XINDX10

Routine Checksum:

Routine Name: XINDX11

Routine Checksum:

Routine Name: XINDX2

Routine Checksum:

Routine Name: XINDX3

Routine Checksum:

Routine Name: XINDX4

Routine Checksum:

Routine Name: XINDX5

Routine Checksum:

Routine Name: XINDX51

Routine Checksum:

Routine Name: XINDX52

Routine Checksum:

Routine Name: XINDX6

Routine Checksum:

Routine Name: XINDX7

Routine Checksum:

Routine Name: XINDX8

Routine Checksum:

Routine Name: XINDX9

Routine Checksum:

Routine Name: XTSUMBLD

Routine Checksum:

Routine Name: ZTP1

Routine Checksum:

Routine Name: ZTPP  
Routine Checksum:

Routine Name: XINDX53  
Routine Checksum:

Routine Name: XTRUTL  
Routine Checksum:

Routine Name: XTRUTL2  
Routine Checksum:

Routine Name: XTRUTL1  
Routine Checksum:

Routine Name: XTVNUM  
Routine Checksum:

### 1.15.3 Installation

1. DSM sites- These routines aren't usually mapped so you will probably not have to disable mapping.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
  - Verify Checksum's in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
4. Users can remain on the system.
6. On the KIDS menu, under the 'Installation' menu, use the following option:  
Install Package(s) 'XT\*7.3\*20'
7. DSM/MSM Sites

Move the following two routines to the MGR account.

- ZTP1
- ZTPP

In the MGR account rename the routines.

- ZL ZTP1 ZS %ZTP1
- ZL ZTPP ZS %ZTPP

8. OpenM Sites - Just rename the routines.

- ZL ZTP1 ZS %ZTP1
- ZL ZTPP ZS %ZTPP

## 1.16 XT\*7.3\*25 SEQ #16: VPM-Misc Fixes

**Category:** Routine

### 1.16.1 Description

This patch is for VMS sites only. It provides bug fixes and a response time calculation adjustment.

### 1.16.2 Routines

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Aug 01, 1997

Routine	Old	New	2nd Line
XUCMNIT	15223160	15176001	**17,25**
XUCMNIT1	7377867	7383268	**25**
XUCMNIT2	17426297	17446620	**17,25**
XUCMPA	7085998	7037807	**25**
XUCMVPI	6241413	6033376	**17,25**
XUCMXDR	24729637	25168651	**25**
XUCMXUTL	N/A (new)	1267731	**25**

#### **Routine Information:**

Routine Name: XUCMPA

Fixes an undefined at EN2

NOIS DAY-0497-41367

Routine Checksum:



Routine Name: XUCMNIT1

NOIS: DAY-0497-41210

An undefined will occur when an exported metric is missing from file 8986.4.

Routine Checksum:

Routine Name: XUCMNIT

Adjusts the calculation of response time for sites running a version of DSM less than 6.4.

Routine Checksum:

Routine Name: XUCMNIT2

Routine Checksum:

Routine Name: XUCMXDR

New routine

Routine Checksum:

Routine Name: XUCMXUTL

New Routine

Routine Checksum:

Routine Name: XUCMVPI

Fixed to allow exit before rebuilding com files.

Routine Checksum:

### 1.16.3 Installation Instructions

\*\*\* THIS PATCH IS FOR VMS SITES ONLY. \*\*\*

If you are running VPM, disable the package using:

Capacity Management ...

VAX/ALPHA Capacity Management ...

VAX/ALPHA Performance Monitor ...

Enable/Disable VPM

1. Users ARE allowed to be on the system during the installation.

2. DO NOT place TaskMan in a WAIT/STOP state.
3. If you are using routine mapping, ensure that these routines are NOT in your mapped routine before proceeding.
4. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
5. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global.
6. On the KIDS menu, under the 'Installation' menu, use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
  - Install Package(s)
  - INSTALL NAME: XT\*7.3\*25
7. Rebuild your mapped set if necessary.
9. Re-enable VPM data collection.

## 1.17 XT\*7.3\*23 SEQ #17: Duplicate Record Merge: Patient Merge

Associated patches:

(v)DI\*21\*41 <=< must be installed BEFORE `XT\*7.3\*23'  
(v)DI\*21\*42 <=< must be installed BEFORE `XT\*7.3\*23'  
(v)PSJ\*4.5\*43 <=< must be installed BEFORE `XT\*7.3\*23'  
(v)DG\*5.3\*156 <=< must be installed BEFORE `XT\*7.3\*23'  
(v)IB\*2\*94 <=< must be installed BEFORE `XT\*7.3\*23'  
(v)LR\*5.2\*205 <=< must be installed BEFORE `XT\*7.3\*23'  
(v)IMR\*2.1\*2 <=< must be installed BEFORE `XT\*7.3\*23'  
(v)IB\*2\*97 <=< must be installed BEFORE `XT\*7.3\*23'

**Category:** Routine, Data Dictionary, Enhancement (Mandatory)

### 1.17.1 Description

Associated package: NDBI v 1.0

**Note:** It is very important that you read the documentation for this patch prior to using the patient merge options.

Patient Merge provides an automated method to eliminate duplicate patient records within the VISTA database. It is an operational implementation of the Duplicate Resolution Utilities released to the field with Toolkit version 7.2. The overall process consists of the search for potential duplicate record pairs, review and verification of those pairs, and the merge process. The search and identification of potential duplicate records performs comparisons on key fields in the PATIENT file. (This is a long process and can exceed 100 hours.) When evaluated as a potential duplicate, the pair is entered into file 15 (Duplicate Record File) and is available for review and verification. The review allows for two levels of review; a primary reviewer - focusing on patient demographics - and an ancillary reviewer - focusing on ancillary service data. Once verified, the merge process can be initiated. (This is a long process and can exceed 15 hours.)

A complete set of documentation (Release Notes, Installation Guide, User Manual, and Technical Manual) may be obtained using FTP from the appropriate Customer Service directory:

IRM FIELD OFFICE	FTP ADDRESS	DIRECTORY
ALBANY	152.127.1.5	anonymous.software
HINES	152.129.1.110	anonymous.software
SALT LAKE	152.131.2.1	anonymous.software

Release Notes file name: xt\_73\_p23\_rn.pdf

Installation Guide file name: xt\_73\_p23\_ig.pdf

User Manual file name: xt\_73\_p23\_um.pdf

Technical Manual file name: xt\_73\_p23\_tm.pdf

Upon completion of the site prep tasks, please contact your Implementation Manager to coordinate the release of the software to your facility. Contained in the national plan for implementation (pg. 7) is a listing of Implementation Managers and their VISN assignments. You may download a copy at: [http://hirmfo.med.va.gov/education/cio\\_nteo/CIRN.htm](http://hirmfo.med.va.gov/education/cio_nteo/CIRN.htm)

### **NOIS Messages Covered**

There are three NOIS calls, all with a Referred, Awaiting Patch status. These all have to do with sites wanting to merge patient records. The release of this patch will serve to close these calls. The NOIS calls are:

- CAS-0797-12438, duplicate pts and pt demo missing
- SPO-0298-51628, How to merge duplicate entries

- NYN-0398-11634, Site needs help with Duplicate Resolution

## 1.17.2 File Information

This patch contains three new files and changes to the existing files.

### **Duplicate Record**    ^VA(15,

This file contains information about duplicate records in any file defined in the two variable pointer fields; RECORD1 and RECORD2 (.01 and .02). The status of an entry in this file may be 'potential duplicate, unverified', 'verified, not a duplicate', or 'verified duplicate'.

### **Duplicate Resolution**    ^VA(15.1,

This file is used to handle duplicate checking and merging of files that have entries in the Duplicate Record File. It is meant to provide the overall control information that would be used to first identify duplicates within a file, e.g. Patient File, and then to merge the entries.

### **XDR Merge Process**    ^VA(15.2,    **New file**

When a merge process is set up, all its information is stored in this file. Once a merge process has completed, that entry may be purged using the Purge Merge Process File option in the manager's menu.

### **XDR Repointed Entry**    ^VA(15.3,    **New file**

This file is used to record the entry number of the FROM record that is merged into the to record. This can be used for FileMan to determine which entries were merged, so the IEN of the FROM record will not be reused.

### **Merge Images**    ^XDRM    **New file**

File 15.4 stores an image of the pairs of entries in files that were merged immediately prior to the actual merge. In addition, there is also a record of the locations of pointer values that were changed during the merge process.

## 1.17.3 Option Information

This patch contains 27 options:

XDR Add Verified Dups  
XDR Ancillary Review  
XDR Approve For Merge  
XDR Check Merge Process Status  
XDR Check Pair  
XDR Display Search Status  
XDR Edit Dup Record Status  
XDR Edit Dup Resolution File  
XDR Find Potential Duplicates  
XDR Main Menu (Locked with XDR key)

- XDR Manager Utilities (Locked with XDRMGR key)
- XDR Merge Ready Duplicates
- XDR Operations Menu
- XDR Preliminary Scan
- XDR Preliminary Scan List
- XDR Print List
- XDR Purge
- XDR Purge2
- XDR Restart Merge Process
- XDR Scan Possible Duplicates
- XDR Search All
- XDR Stop Merge Process
- XDR Tally Status Fields
- XDR Utilities Menu
- XDR Valid Check
- XDR Verify All
- XDR View Duplicate Record

The menu option Duplicate Resolution System [XDR MAIN MENU] will appear as a sub- menu on the Application Utilities menu [XTMENU].

The menu option Operations [XDR OPERATIONS MENU] will appear as a sub-menu on the [XDR MAIN MENU].

The menu option Utilities [XDR UTILITIES MENU] will appear as a sub-menu on the [XDR MAIN MENU].

The menu option Manager Utilities [XDR MANAGER UTILITIES] will appear as a sub- menu on the [XDR MAIN MENU].

#### 1.17.4 Post-Init Information

This patch does not contain a post-init routine.

#### 1.17.5 Print Templates

XDR Brief List FILE #15

XDR Merged List FILE #15

#### 1.17.6 Sort Templates

XDR Merged List FILE #15

XDR Not Ready to Merge List FILE #15

XDR Potential Duplicate List FILE #15

XDR Ready to Merge List FILE #15

### 1.17.7 Forms

XDR RESFILE FORM FILE #15.1

### 1.17.8 Routine Information

#### **Routine Summary:**

The following is a list of routines included in this patch.

The second line of each of these routines will look like:

<tab>;7.3;;TOOLKIT;\*\*[patch list]\*\*; Apr 25, 1995

CHECK^XTSUMBLD results

Routine name	Before Patch	After Patch	Patch List
XDR2NULL	N/A	213286	23
XDRCNT	7651887	7742313	23
XDRDADD	8133407	8530927	23
XDRDCOMP	4431965	4873221	23
XDRDDATA	N/A	893537	23
XDRDEDT	N/A	9827533	23
XDRDLIST	7786460	9241915	23
XDRDMAIN	5700890	6747860	23
XDRDPICK	N/A	17800586	23
XDRDPRE1	N/A	5745643	23
XDRDPREL	N/A	5988721	23
XDRDPRG2	N/A	1096260	23
XDRDPRGE	3959904	3975142	23
XDRDQUE	9275556	9693871	23
XDRDSHOW	N/A	7608889	23

Routine name	Before Patch	After Patch	Patch List
XDRDSTAT	2676366	5551016	23
XDRDUP	3547600	4515332	23
XDRDVAL	N/A	8556766	23
XDRDVAL1	N/A	12083072	23
XDRDVAL2	N/A	12453467	23
XDREMSG	4302480	4339222	23
XDRMADD	6382715	12378004	23
XDRMAIN	7563507	8572792	23
XDRMAINI	14611797	15245931	23
XDRMERG	N/A	11028391	23
XDRMERG0	N/A	11419853	23
XDRMERG1	N/A	5837142	23
XDRMERG2	N/A	15382760	23
XDRMERGA	N/A	17080288	23
XDRMERGB	N/A	16160853	23
XDRMVFY	1318075	1157832	23
XDRPREL1	N/A	766751	23
XDRPTCAN	N/A	7251504	23
XDRPTCLN	N/A	1819429	23
XDRPTDOB	N/A	1857839	23
XDRPTDOD	N/A	498220	23
XDRPTLSD	N/A	803980	23
XDRPTMMN	N/A	1478218	23

Routine name	Before Patch	After Patch	Patch List
XDRPTN	N/A	6440837	23
XDRPTSSN	N/A	3615316	23
XDRPTSX	N/A	573526	23
XDRRMRG0	N/A	4444660	23
XDRRMRG1	N/A	19616376	23
XDRRMRG2	N/A	5315420	23
XDRUTL	N/A	927605	23
XDRVCHEK	N/A	4108217	23

**Routine Information:**

Routine Name: XDR2NULL

Routine Checksum:

Routine Name: XDRCNT

Routine Checksum:

Routine Name: XDRDADD

Routine Checksum:

Routine Name: XDRDCOMP

Routine Checksum:

Routine Name: XDRDDATA

Routine Checksum:

Routine Name: XDRDEDT

Routine Checksum:

Routine Name: XDRDLIST

Routine Checksum:

Routine Name: XDRDMAIN

Routine Checksum:

Routine Name: XDRDPICK

Routine Checksum:

Routine Name: XDRDPRE1

Routine Checksum:

Routine Name: XDRDPREL

Routine Checksum:



Routine Name: XDRDPRG2

Routine Checksum:

Routine Name: XDRDPRGE

Routine Checksum:

Routine Name: XDRDQUE

Routine Checksum:

Routine Name: XDRDSHOW

Routine Checksum:

Routine Name: XDRDSTAT

Routine Checksum:

Routine Name: XDRDUP

Routine Checksum:

Routine Name: XDRDVAL

Routine Checksum:

Routine Name: XDRDVAL1

Routine Checksum:

Routine Name: XDRDVAL2

Routine Checksum:

Routine Name: XDREMSG

Routine Checksum:

Routine Name: XDRMADD

Routine Checksum:

Routine Name: XDRMAIN

Routine Checksum:

Routine Name: XDRMAINI

Routine Checksum:

Routine Name: XDRMERG

Routine Checksum:

Routine Name: XDRMERG0

Routine Checksum:

Routine Name: XDRMERG1

Routine Checksum:

Routine Name: XDRMERG2

Routine Checksum:

Routine Name: XDRMERGA

Routine Checksum:

Routine Name: XDRMERGB

Routine Checksum:

Routine Name: - XDRMVFY

Routine Checksum:

Routine Name: XDRPREL1

Routine Checksum:

Routine Name: XDRPTCAN

Routine Checksum:

Routine Name: XDRPTCLN

Routine Checksum:

Routine Name: XDRPTDOB

Routine Checksum:

Routine Name: XDRPTDOD

Routine Checksum:

Routine Name: XDRPTLSD

Routine Checksum:

Routine Name: XDRPTMMN

Routine Checksum:

Routine Name: XDRPTN

Routine Checksum:

Routine Name: XDRPTSSN

Routine Checksum:

Routine Name: XDRPTSX

Routine Checksum:

Routine Name: XDRRMRG0

Routine Checksum:

Routine Name: XDRRMRG1

Routine Checksum:

Routine Name: XDRRMRG2

Routine Checksum:

Routine Name: XDRUTL

Routine Checksum:

Routine Name: XDRVCHek

Routine Checksum:

### 1.17.9 Installation Instructions

1. Recommend the patch installer review the Installation Guide documentation for detailed installation and implementation information.
2. This patch can be loaded with users on the system. Installation will take less than 1 minute.

3. Review your mapped set. If any of the routines listed in the Routine Summary section are mapped, they should be removed from the mapped set at this time.
4. Impacts of files:
  - a. The size of File 15 is dependent upon the number of potential duplicates found and is thus dependent upon the size of the Patient File. It may be purged using the application options, however note that information regarding those pairs already merged will not be purged.
  - b. The size of File 15.1 is minimal. This file contains the working components of Duplicate Resolution as they pertain to a primary file. It will expand as additional primary files are added.
  - c. The size of File 15.2 is minimal. It may be purged using the application options.
  - d. The size of File 15.3 is minimal. The number of entries is dependent upon the number of record pairs merged.
  - e. The size of File 15.4 is dependent upon the number of record pairs merged and their associated data. Note that not all associated data is retained, but rather pointer values. This is an independent global with the intent that it can be saved off to a static environment for archive purposes.
5. This patch contains 46 routines. The following routines are necessary for the operation of Patient Merge, but are not included with this patch as they were previously released as part of Toolkit:

XDRDADJ	XDRDFPD	XDRDPDTI	XDRDSCOR
XDRMPACK	XDRMRG	XDRMRG1	XDRMSG
XDRU1			

6. From the Kernel Installation and Distribution System Menu, select the Installation menu.
7. From this menu, you may elect to use the following options (when prompted for the Install Name, enter XT\*7.3\*23):
  - a. Backup a Transport Global - this option will create a backup message of any routines exported with the patch. It will NOT backup any of the other changes.
  - b. Compare Transport Global to Current System - this option will allow you to view all changes that will be made when the patch is installed. It compares all components of the patch (routines and options).

- c. Verify Checksums in Transport Global - this option will allow you to ensure the integrity of the routines that are in the transport global.
8. Use the Install Package(s) option and select the package XT\*7.3\*23.
10. When prompted "Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES/" respond "NO".
11. If any routines were unmapped as a part of step 3, they should be returned to the mapped set once the installation has run to completion.

## 1.18 XT\*7.3\*28 SEQ #18: Patient Merge Restart Problem

Associated patches: (v)XT\*7.3\*23 must be installed before `XT\*7.3\*28`

**Category:** Routine

### 1.18.1 Description

This patch fixes problems Merge test sites were having when attempting to restart a Merge process.

NOIS: ISF-0698-62207

### 1.18.2 Routines

#### **Routine Summary:**

The following routines are included in this patch. The second line of each of these routines now looks like:

```
<tab>;;7.3;TOOLKIT;**[patch list]**;Apr 25, 1995
```

#### **Checksums:**

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRMERGA	17080288	17097269	**23,28**

#### **Routine Information:**

Routine Name: XDRMERGA

Routine Checksum:

### 1.18.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. No MERGE processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":  
  
Install Package(s) Install Name: XT\*7.3\*28  
  
No Options or Protocols need to be placed out-of-order.  
  
Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.19 XT\*7.3\*29 SEQ #19: Patient Merge Lab Review Fixes

Associated patches: (v)XT\*7.3\*23 must be installed BEFORE `XT\*7.3\*29'

Category: Routine

### 1.19.1 Description

This patch fixes problems Merge test sites were having when attempting to review LAB Ancillary data when selecting a Health Summary.

NOIS: ISF-0698-62205

## 1.19.2 Routines

### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

Checksums:

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRRMRG1	19616376	19644531	**23,29**
XDRRMRG2	5315420	5352373	**23,29**

### Routine Information

Routine Name: XDRRMRG1

Routine Checksum:

Routine Name: XDRRMRG2

Routine Checksum:

## 1.19.3 Installation Instructions

1. Users are allowed to be on the system during the installation. No merge processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global

5. Return to Programmers Prompt and use "D ^XPDKRN":

Install Package(s)

Install name: XT\*7.3\*29

No Options or Protocols need to be placed out-of-order.

Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.20 XT\*7.3\*30 SEQ #20: Patient Merge Division by Zero

Associated patches: (v)XT\*7.3\*23 <=< must be installed BEFORE `XT\*7.3\*30'

**Category:** Routine

### 1.20.1 Description

This patch will ensure that when displaying search statuses that if zero records have been processed a division by zero error will not occur.

NOIS: IST-0798-30553

### 1.20.2 Routines

#### **Routine Summary:**

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### **Checksums:**

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRDSTAT	5551016	5769813	**23,30**

#### **Routine Information:**

Routine Name: XDRDSTAT

Routine Checksum:

### 1.20.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. No MERGE processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the effected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":

Install Package(s)

INSTALL NAME: XT\*7.3\*30

No Options or Protocols need to be placed out-of-order.

Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s).

AXP Sites - Answer NO to this question.

7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.21 XT\*7.3\*27 SEQ #21: More XINDEX Fixes

**Category:** Routine

### 1.21.1 Description

NOIS	Routine	Description
F#25580312 ISW-0698-21653	XINDEX10	Was getting an UNDEF when XINDEXing a Build with a partial file send.
ISH-1197-40901	XINDEX10	When doing an XINDEX of a BUILD, the



NOIS	Routine	Description
ISA-0698-11515		count of routines indexed was wrong. The count of routines now lists anything that starts with a ' ' as a Faux Routine. i.e. Routines: 11 Faux Routines: 5
ISA-0698-11515	XINDEX11	The KIDS build pre/post install routines were not included.
Local Error log	XTRMON	Incorrect starting value when monitoring ALL routines.

Message from Ed @ Micronetics about changes they made to use with MSM. Only updates to the standard and general fixes were included.

Message from Pat Redington @ SLC about a problem running XINDEX on a partial file build.

#### Checksum

Routine	Old	New	2nd Line
XINDEX	8229005	8423982	**20,27**
XINDEX10	13440865	13730836	**20,27**
XINDEX11	7648100	7252133	**20,27**
XINDEX2	5457656	5618431	**20,27**
XINDEX3	3946423	4134014	**20,27**
XINDEX5	7001485	6939608	**20,27**
XINDEX6	10238332	10371813	**20,27**
XINDEX7	7680200	7896227	**20,27**
XINDEX8	6232391	6601958	**20,27**
XINDEX9	4248028	4321464	**20,27**
XTRMON	2510222	2618426	**27**

List of preceding patches: 20

Checksum's calculated by CHECK^XTSUMBLD

**Routine Information:**

Routine Name: XINDX8

Routine Checksum:

Routine Name:- XINDX6

Routine Checksum:

Routine Name: XINDX2

Routine Checksum:

Routine Name: XINDX3

Routine Checksum:

Routine Name: XINDX7

Routine Checksum:

Routine Name: XINDX10

Routine Checksum:

Routine Name: XINDX11

Routine Checksum:

Routine Name: XINDX5

Routine Checksum:

Routine Name: XINDX9

Routine Checksum:

Routine Name: XTRMON

Routine Checksum:

Routine Name: XINDEX

Routine Checksum:

### 1.21.2 Installation

1. DSM sites- These routines aren't usually mapped so you will probably not have to disable mapping.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
  - Verify Checksum's in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
4. Users can remain on the system.

5. On the KIDS menu, under the 'Installation' menu, use the following option:

Install Package(s) 'XT\*7.3\*27'

6. DSM Sites, after patch has installed, rebuild your map set, if needed.

## 1.22 XT\*7.3\*32 SEQ #22: Merge NOK Validation Skip

Associated patches: (v)XT\*7.3\*23 must be installed BEFORE `XT\*7.3\*32'

**Category:** Routine

### 1.22.1 Description

In regard to the Next-of-Kin data and other Patient File data that is validated through DGLOCK2: If the 'merging from' record contains more information than the 'merging to' record, the validation process could fail, although the actual merge process would succeed. The validation process steps through Patient File field by field. If the 'merging from' record has a complete next-of-kin entry and the 'merging to' record is empty, the validation process would fail when it determined that it had to add a NOK address to the 'merging to' record when there is no NOK name. The actual Merge process would add the NOK name first and then when attempting to add the address it would succeed because a name would be present.

XDRDVAL was modified to skip the Patient File fields that are validated through DGLOCK2 (NOK, Spouse, Designee, etc.).

### 1.22.2 Routines

#### **Routine Summary:**

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### **Checksums:**

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRDVAL	8556766	8689665	**23,32**

#### **Routine Information:**

Routine Name: XDRDVAL

Routine Checksum:

### 1.22.3 Installation Instructions

1. Users are allowed to be on the system during the installation. No merge processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*32
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.23 XT\*7.3\*33 SEQ #23: Merge fixes

**Category:** Sort Template

### 1.23.1 Description

A Post-Init routine was added to the patch to remove bogus entries in the Package file for Toolkit under the "Affects Records Merge" field. This patch should be installed ASAP to avoid Patient Merge processes from erroring out as described in NOIS STL-1198-41424.

This patch contains the four sort templates used by the Patient Merge Print option, XDR PRINT LIST. The previous templates did not have values associated with them and therefore were not selecting the distribution list properly.

1. XDR MERGED LIST (Nov 09, 1998@13:48) User #1 File #15
2. XDR NOT READY TO MERGE LIST (Nov 09, 1998@13:50) User #1 File #15
3. XDR POTENTIAL DUPLICATE LIST (Dec 03, 1997@12:02) File #15
4. XDR READY TO MERGE LIST (Nov 09, 1998@13:51) User #1 File #15

### 1.23.2 Installation Instructions

1. Users ARE allowed to be on the system during the installation.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
3. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:

Verify Checksums in Transport Global

Print Transport Global

Compare Transport Global to Current System

Backup a Transport Global

Use Installation option under the KIDS menu:

Install Package(s)

INSTALL NAME: XT\*7.3\*33

At the prompt: 'Want KIDS to Rebuild Menu Trees Upon Completion of Install?' enter NO. An option gets put out of order which causes this question to be asked, however there is no need to rebuild menu trees.

At the prompt: 'Want to DISABLE Scheduled Options and Menu Options?' enter YES.

Disable Option: 'XDR PRINT LIST'

4. Ensure that the patch was successfully installed and that option XDR PRINT LIST has been enabled.

5. Ensure that Post-Init routine executed and that you have no entries in the "Affects Record Merge" multiple for "TOOLKIT" in the Package File.

### 1.23.3 Routine Information

No Routine information

## 1.24 XT\*7.3\*26 SEQ #24: Parameter Tools Functionality

Category: Routine, Data Dictionary, Enhancement (Mandatory), Input Template, Other

### 1.24.1 Description

This patch contains a new developer toolset that allows creation of package parameters in a central location. Database Integration Agreements (DBIAs) 2263 and 2336 define the supported entry points for this application. In addition, there are programmer tools supplied to export namespaced package parameters.

Parameter Tools is a generic method of handling parameter definition, assignment, and retrieval. A parameter may be defined for various entities where an entity is the level at which you want to allow the parameter defined (e.g.package level, system level, division level, location level, user level, etc.). A developer may then determine in which order the values assigned to given entities are interpreted. The following are some basic definitions used by Parameter Tools:

#### Entity

An entity is a level at which you can define a parameter. The entities allowed are stored in the Parameter Entity file (#8989.518). The list of allowable entities at this time is as follows:

Prefix	Message	Points to File
PKG	Package	Package (9.4)
SYS	System	Domain (4.2)
DIV	Division	Institution (4)
SRV	Service	Service/Section (49)
LOC	Location	Hospital Location (44)
TEA	Team	Team (404.51)

Prefix	Message	Points to File
CLS	Class	Usr Class (8930)
USR	User	New Person (200)
BED	Room- Bed	Room-Bed (405.4)
OTL	Team (OE/RR)	OE/RR List (101.21)

Note: entries in this file will be maintained via ToolKit patches.

### Parameter

A parameter is the actual name which values are stored under. The name of the parameter must be namespaced and it must be unique. Parameters can be defined to store the typical package parameter data (e.g. the default add order screen in OE/RR), but they can also be used to store GUI application screen settings a user has selected (e.g. font or window width). When a parameter is defined, the entities which may set that parameter are also defined. The definition of parameters is stored in the PARAMETER DEFINITION file (#8989.51).

### Value

A value may be assigned to every parameter for the entities allowed in the parameter definition. Values are stored in the PARAMETERS file (#8989.5).

### Instance

An instance is a unique value assigned to an entity/parameter combination. For most parameters, there will only be one instance (this value will be set to 1). However, a parameter may have more than one instance which means there can be more than one value assigned to the parameter as it relates to a specific entity. An example of this would be lab collection times at a division. A single division may have multiple collection times. Each collection time would be assigned a unique instance.

### Parameter Template

A parameter template is similar to an input template. It contains a list of parameters that can be entered through an input session (e.g., an option). Templates are stored in the Parameter Template file (#8989.52).

Entries in this file must also be namespaced.

In addition to the supported entry points in DBIAs 2263 and 2336, the following routine is available for use by developers:

XPARTPV - This routine may be called from the top. It will allow you to create routines to export the package level values for a package's parameters. You will be asked to enter the namespace of the parameters you want to export and the name and maximum size of the routines you would like exported.

## 1.24.2 Routines

### Routine Summary

The following is a list of the routine(s) included in this patch. The second line of each of these routine(s) will look like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

### Checksums

CHECK^XTSUMBLD results

Routine name	Before Patch	After Patch	Patch List
XPAR	N/A	4083493	26
XPAR1	N/A	4934162	26
XPAR2	N/A	2205948	26
XPARDD	N/A	715303	26
XPARDD1	N/A	1079390	26
XPARDD2	N/A	511694	26
XPARDDAC	N/A	2136925	26
XPAREDIT	N/A	4356686	26
XPAREDT1	N/A	5587009	26
XPAREDT2	N/A	6057876	26
XPAREDT3	N/A	4979734	26
XPARLIST	N/A	3010970	26
XPARTPV	N/A	4084670	26
XPARTPV1	N/A	2307544	26
XPARY26	N/A	488095	26



**Routine Information**

Routine Name: XPAR

Routine Checksum:

Routine Name: XPAR1

Routine Checksum:

Routine Name: XPAR2

Routine Checksum:

Routine Name: XPARDD

Routine Checksum:

Routine Name: XPARDD1

Routine Checksum:

Routine Name: XPARDD2

Routine Checksum:

Routine Name: XPARDDAC

Routine Checksum:

Routine Name: XPAREDIT

Routine Checksum:

Routine Name: XPAREDT1

Routine Checksum:

Routine Name: XPAREDT2

Routine Checksum:

Routine Name: XPAREDT3

Routine Checksum:

Routine Name: XPARLIST

Routine Checksum:

Routine Name: XPARTPV

Routine Checksum:

Routine Name: XPARTPV1

Routine Checksum:

Routine Name: XPARY26

Routine Checksum:

### 1.24.3 Installation Instructions

This patch can be loaded at any time with users on the system. It will have no impact on existing software. Installation will take less than 5 minutes.

1. Use the INSTALL/CHECK MESSAGE option on the PackMan menu.
2. From the Kernel Installation and Distribution System Menu, select the Installation menu.

3. From this menu, you may elect to use the Verify Checksums in Transport Global option (when prompted for INSTALL NAME, enter XT\*7.3\*26).
4. Use the Install Package(s) option and select the package XT\*7.3\*26.
5. When prompted 'Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES//', respond NO.
6. If routine mapping is utilized at your site, it is recommended that XPAR, XPAR1, XPARD1 be added to your mapped set at this time. These routines are heavily referenced when retrieving parameter values.
7. Once the installation has successfully run to completion, the routine XPARY26 may be removed from your system.

## 1.25 XT\*7.3\*34 SEQ #25: Merge Fixes

**Category:** Routine

### 1.25.1 Description

This patch fixes problems reported in the following NOIS's:

#### **CHA-1298-32689**

Merge errors with undefined ^DIC([file]. The [file] in question doesn't exist. Variable XDRFILE was not being protected, "newed" variable to fix problem. Following NOIS's also identified this problem: NYN-0299-10908, WNY-0299-10003, DAY-0199-42913, SYR-0299-11886, CMO-0199-42484, DEN-0299-51227.

#### **ANC-0199-50150**

When validating merge entries undefined error appears if a sub-file data element is an identifier. Code was reporting wrong variable, FIELD instead of XDRID. Also changed logic to only check "required" identifiers.

#### **Post-Init Routine**

XT73P34 was created to remove AMRG x-ref that was left dangling by XT73P33 Post-Init routine.

### 1.25.2 Routines

#### **Routine Summary**

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### **Checksums**

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRDVAL2	12453467	12499415	**23,34**
XDRMERG	11028391	11046975	**23,34**
XDRMERG1	5837142	5846606	**23,34**
XT73P34	New	425881	Post Init Routine

**Routine Information**

Routine Name: XDRDVAL2

Routine Checksum:

Routine Name: XDRMERG

Routine Checksum:

Routine Name: XDRMERG1

Routine Checksum:

Routine Name: XT73P34

Routine Checksum:

### 1.25.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. No MERGE processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install

- Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*34
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.26 XT\*7.3\*35 SEQ #26: Fix EN~U~XPAR

**Category:** Routine

### 1.26.1 Description

This patch fixes two NOIS's for the XPARG package.

NOIS	RTN	Description
IND-1298-71717	XPARD	When making a call to EN^XPAR and the data is a set of codes, sometimes it would talk. This unwanted behavior has been fixed.
PUG-0399-51652	XPARED2	When displaying some types of data, the two columns could run into each other. Moved columns apart and use a \$E to limit the size.

### 1.26.2 Routines

#### **Routine Summary**

The following routines are included in this patch. The second line of each of these routines now looks like: ;;7.3;TOOLKIT;<patchlist>;Apr 25, 1995

Checksum			
Routine	Old	New	2nd Line
XPARDD	7153031	7342389	**26,35**
XPARED2	6057876	6104530	**26,35**

List of preceding patches: 26

Sites should use CHECK^XTSUMBLD to verify checksums.

**Routine Information:**

Routine Name: XPARDD

Routine Checksum:

Routine Name: XPARED2

Routine Checksum:

### 1.26.3 Installation

1. DSM sites - Some of these routines maybe mapped, so you will need to disable mapping for the affected routines.
2. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS package onto your system.
3. The patch has now been loaded into a Transport global on your system. You now need to use KIDS to install the Transport global. On the KIDS menu, under the 'Installation' menu, use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
4. Users can remain on the system. This patch can be loaded any non-peak time. This patch can be queued for install at non-peak hours.
5. On the KIDS menu, under the 'Installation' menu, use the following option:

Install Package(s) 'XT\*7.3\*35'

No Options or Protocols need to be placed out-of-order.

Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

6. DSM Sites, after patch has installed, rebuild your map set.

## 1.27 XT\*7.3\*37 SEQ #27: Patient Merge fixes for RAD

**Category:** Routine

### 1.27.1 Description

**Warning:** This ToolKit patch is for the Patient Merge package. No merge processes should be running during installation.

This patch uses the internal value for sub-file 70.03 so that FileMan will not call the input transform which calls for user interaction. This will prevent the ^RA global from locking during a merge process.

NOIS: OKL-0399-70449, Oklahoma City served as the test site.

### 1.27.2 Routines

#### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRMERGA	17097269	17263351	**23,28,37**

#### Routine Information

Routine Name: XDRMERGA

Routine Checksum:

### 1.27.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. No MERGE processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.

4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*37
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.28 XT\*7.3\*38 SEQ #28: Patient Merge Use of X-Ref's

**Category:** Routine

### 1.28.1 Description

**WARNING:** This is a ToolKit patch to the Patient Merge package. No Merge processes should be running at the time of installation.

Patient Merge routines were modified to use x-ref's when the pointer's are other than .01 fields. Originally, this was only done for pointers that were the .01 field in a file. The current version will identify all pointers at the top level or within subfiles which have top-level cross-references. To insure that the cross-reference is valid for use, the cross-reference will be checked for consistency in the first 10 cases (based upon the subscript immediately following the cross-reference). In some cases, files may not have 10 entries to permit this validation, in which case they are omitted from the phase two processing, and identified by search in phase three instead. Also, at the time the cross-references are being searched, the value at the indicated node and piece is confirmed to be the value expected for the cross-reference. Use of all possible cross-references required that the code be modified to insure that all pointer fields to the merge file with valid cross-references within the file be identified and processed, and that all relevant entries within a multiple be identified and modified. The code

for processing the cross-references (tag XREFS) was moved from XDRMERG2 to XDRMERG1. A fourth piece was added to the data in the "XGLOB" nodes generated by SETUP^XDRMERG [the cross-references are used only when the argument passed to this call is 2 as in SETUP^XDRMERG(2) for the second phase] which indicates which internal entry number the cross reference is within the Data Dictionary for the file and field. The structure of this global is:

```
^TMP($J,"XGLOB",GlobalPart,Node,PieceNumber)=FileName^FieldNumber^CrossRefValue^CrossRefIEN
```

The cross reference can be listed out as

```
^DD(FileName,FieldNumber,1,CrossRefIEN,1)
```

## 1.28.2 Routines

### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

### Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRMERG	11046975	16657193	**23,34,38**
XDRMERG1	5846606	11706221	**23,34,38**
XDRMERG2	15382760	12944371	**23,38**

### Routine Information

Routine Name: XDRMERG

Routine Checksum:

Routine Name: XDRMERG1

Routine Checksum:

Routine Name: XDRMERG2

Routine Checksum:

## 1.28.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. No MERGE processes should be running.



2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*38
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.29 XT\*7.3\*40 SEQ #29: Merge Fixes

Associated patches:

(v)XT\*7.3\*37 must be installed BEFORE `XT\*7.3\*40'

(v)XT\*7.3\*38 must be installed BEFORE `XT\*7.3\*40'

**Category:** Routine

### 1.29.1 Description

**Warning:** This ToolKit patch is for the Patient Merge package. No merge processes should be running during installation.

**NOIS: BAF-0399-N1476**

This patch modifies the Patient Merge routines to allow entry of a LAB record if the time stamp matches one in the current record. The new entry will be added at the first available spot (i.e. the time stamp will be incremented by one second until an open slot is found).

**NOIS: MIN-0599-42399, POR-0599-50509, PHI-0499-20451, and BOS-0399-12133**

This patch also contains a fix to extract data out of file #200 to determine the user's identity rather than using XQUSER (which wasn't always present, resulting in an Undefined Error).

**Note:** XDRMERGA became over 10000 bytes and therefore was split into XDRMERGC.

## 1.29.2 Routines

**Routine Summary**

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

**Checksums**

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRMERG2	12944371	12944409	**23,38,40**
XDRMERGA	17263351	15374059	**23,28,37,40**
XDRMERGC	New	2388293	**40**

**Routine Information**

Routine Name: XDRMERGA

Routine Checksum:

Routine Name: XDRMERG2

Routine Checksum:

Routine Name: XDRMERGC

Routine Checksum:

### 1.29.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. No MERGE processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*40
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.30 XT\*7.3\*36 SEQ #30: Patient Merge fixes for LAB

**Category:** Routine

### 1.30.1 Description

**Warning:** This is a ToolKit patch for the Patient Merge software. Please ensure that no merge processes are running when installing this patch.

**Warning:** The Post-Init routine will create a halted merge process (LR FIX PROCESS) for sites that have had a merge process stopped during LAB's special processing routine. The newly created process will be in a halted state and will need to be re-started when convenient to the site.

This patch fixes problems in the Patient Merge routines when a merge process was stopped during LAB's special processing routine. If a merge process was stopped (either intentionally or by error) during the LAB processing the LAB records would become corrupt and the process would NOT be able to re-start properly. Code was added to fix the pointer corruption, should it exist, prior to a re-start. The data validation routines were also enhanced to catch problems in the LAB data prior to starting a merge process.

This patch will execute a post-init routine that will search past merge processes and determine if any records were not properly merged due to the problems fixed by this patch. If discrepancies are found those records will be added to a merge process and will be in a halted state allowing the site to re-start the process when convenient. The merge process would be called "LR FIX PROCESS".

The post-init routine will also step through the verified duplicates to ensure that records that have successfully been merged have a "Merged" status. The Name field will also be verified to ensure that the "Merging into.." has been removed for "Merged From" records.

The following NOIS's were used to track and test this patch:

SHR-0899-70206  
MAR-0699-21807  
DUR-0699-30910  
MIW-0699-40215  
NJH-0499-22162  
MAC-0399-63188  
NAS-0399-32136  
WNY-0399-10163  
DEN-0299-52376  
NTH-0299-70398  
CMO-0199-42484

## 1.30.2 Routines

### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

### Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRDVAL2	12499415	12980333	**23,34,36**
XDRMERG0	11419853	15971094	**23,36**
XDRLRFIX	New	2251910	**36**      Post      Init Routine

**Routine Information:**

Routine Name: XDRDVAL2

Routine Checksum:

Routine Name: XDRMERG0

Routine Checksum:

Routine Name: XDRLRFIX

Routine Checksum:

**1.30.3 Installation Instructions**

1. Users ARE allowed to be on the system during the installation. No MERGE processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*36
  - No Options or Protocols need to be placed out-of-order.

- Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
  7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.
  8. Post-Init routine XDRLRFIX will create a merge process if it detects problems from past merge processes. The newly created process (LR FIX PROCESS) will be in a halted state and will need to be re-started when convenient to the site. If your site does not have any past corruptions, no merge process will be created.

To check, use the 'Check Merge Process' option:

- a. D ^XUP
- b. Select OPTION NAME: XDR MAIN MENU Duplicate Resolution System
- c. Select Duplicate Resolution System Option: XDRU Utilities
- d. Select Utilities Option: CMP Check Merge Process Status
- e. (Review the merge process looking for 'LR FIX PROCESS')

## 1.31 XT\*7.3\*42 SEQ #31: Merge Fixes

Associated patches: (v)XT\*7.3\*36 must be installed BEFORE `XT\*7.3\*42'

**Category:** Routine

### 1.31.1 Description:

This patch fixes four defects reported in the following NOIS's:

TAM-1098-31174

NTH-1198-72408

NTH-0799-72457

BIR-0899-32066

1. Radiology Global gets locked-up during 'Merge Processes'. Another section of the Merge code was using Radiology Input Transforms to check the validity of the data and causing a lockup. Code was modified to use internal values and bypass the FM input transform.

2. Print of search results is misleading. Code was changed to be more specific, indicating that the search results are added to file #15.
3. Error when using Purge option cause by leftover variables. Cleaned up variables.
4. Processes would indicate Unknown status if 30 minutes elapsed without the root global being updated. Expanded timeframe to 12 hours.

### 1.31.2 Routines

#### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### Checksums:

Routine	Checksum Before	Checksum After	Patch List
XDRDPRGE	3975142	3966073	**23,42**
XDRDSTAT	5769813	5965378	**23,30,42**
XDRDVAL2	12980333	12849846	**23,34,36,42**
XDRMERG2	12944409	12955087	**23,38,40,42**

List of preceding patches: 30, 36, 40

Sites should use CHECK^XTSUMBLD to verify checksums.

#### Routine Information:

Routine Name: XDRDPRGR

Routine Checksum:

Routine Name: XDRDSTAT

Routine Checksum:

Routine Name: XDRDVAL2

Routine Checksum:

Routine Name: XDRMERG2

Routine Checksum:

### 1.31.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. No MERGE processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*42
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.32 XT\*7.3\*43 SEQ #32: Infinite Loop in Merge

Associated patches: (v)XT\*7.3\*36 <=< must be installed BEFORE `XT\*7.3\*43'

Category: Routine

### 1.32.1 Description

This patch fixes two problems. One problem is that a Merge process gets into an infinite loop under certain circumstances when reviewing LAB data for past Merge Processes. This was reported in NOIS: FGH-0999-31018.



The other fix is to allow either the SSN or Last Initial + Last 4 of the SSN to lookup Patients when verifying potential duplicates. This was reported in NOIS's: SAJ-0999-71970 and BIR-1298-32737.

### 1.32.2 Routines

#### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### Checksums

Routine	Checksum Before	Checksum After	Patch List
XDRDEDT	9827533	9863281	**23,43**
XDRMERG0	15971094	15985004	**23,36,43**

List of preceding patches: 36

Sites should use CHECK^XTSUMBLD to verify checksums.

#### Routine Information

Routine Name: XDRMERG0

Routine Checksum:

Routine Name: XDRDEDT

Routine Checksum:

### 1.32.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. No MERGE processes should be running.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System

- Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
    - Select KIDS OPTION: Install
    - Install Package(s)
    - Select INSTALL NAME: XT\*7.3\*43
    - No Options or Protocols need to be placed out-of-order.
    - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
  6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
  7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.33 XT\*7.3\*44 SEQ #33: Merge Use of X-Ref Fix

**Category:** Routine

### 1.33.1 Description

This patch's Y2K exemption number is: Y2KWE0016

**Warning:** No merge process should be active prior to installing this patch. Please ensure that all merge processes are completed.

Merge pairs merged after the installation of XT\*7.3\*38 might be incomplete. If a file had multiple entries pointing to the Patient File, only the first one was merged. The merge routines have been modified to ensure that all entries are merged over.

A Post-Init routine will check all past merges and create a new merge process, FIX XREF PROCESS, including any that are incomplete. The sites will need to use the "RESTART" option at their earliest convenience.

The Post-Init routine has an additional section that will clean up the dual piece DPT("LR") nodes that were fixed by XT\*7.3\*36.

NOIS: CON-0999-11966, PRO-1099-12006, SHR-1099-73114

### 1.33.2 Routines

#### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRMERG	16657193	16726829	**23,34,38,44**
XDRMERG1	11706221	11798514	**23,34,38,44**
XT73P44	New	3896172	Post-Init

#### Routine Information

Routine Name: XDRMERG

Routine Checksum:

Routine Name: XDRMERG1

Routine Checksum:

### 1.33.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. All active merge process should be allowed to complete prior to installing this patch.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install

- Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*44
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.34 XT\*7.3\*45 SEQ #34: Merge checks for MPI, BCMA, Phar

Category: Routine

### 1.34.1 Description

**Warning:** No merge process should be active prior to installing this patch. Please ensure that all merge processes are completed.

This patch introduces three separate checks for each pair of duplicate records prior to beginning the merge process.

Pharmacy, each pair's Pharmacy data will be checked to ensure that no past Pharmacy orders conflict. If there is a conflict, the FROM data will be changed to match the ordering sequence in the TO record. If either active orders or orders still on a "pick list" exist, the duplicate pair will be removed from the process. Patch PSJ\*5\*36 provides the checks needed by the Merge package. If the API supplied in PSJ\*5\*36 doesn't exist, the merge process will skip this check.

BCMA, each pair's FROM record will be reviewed to determine if BCMA data exists. If so, the data will need to be archived prior to the merge. The pair of duplicates will be removed.

MPI, if either the FROM or TO record exists in the MPI section, the pair will be removed from the merge process.

This patch contains a fix in the validation process that was erroneously removing duplicate pairs if data existed in (DINUMed files sub-file) the FROM record but not in the TO record.

This patch contains a fix for re-indexing cross references in UNIT DOSE sub-file of the PHARMACY file. Because of the built-in auditing (triggers) within this sub-file

it was necessary to install a hook in the code to only re-index specific cross-references when data gets merged over.

This patch contains a fix to skip validation of fields that use DGLOCK2 in the input transform.

The following NOISs reference this fix. In addition to internal testing, this patch was sent to Boston, Philly, San Antonio, New York, and San Diego. MPI/CIRN and BCMA developers were involved in the testing.

NOIS Calls						Jan 14, 2000 11:19:13	Page: 1 of 1
List: Temporary List							# of calls: 16
#	Call ID	Status	Mod	Spec	Pri	Call Subject	
1	PRO-1299-11182	P	MERGE	VJD	R	RCMRGFIX ROUTINE	
2	MRN-1299-41024	P	MERGE	WB	R	<UNDEF>LOOP2+1^XDRMERG	
3	DEN-1299-50263	P	MERGE	REW	R	4 Pairs to go	
4	BAC-1299-41062	P	MERGE	NYB	R	Installed PRCA*4.5*132 - got	
5	BRX-1299-10781	P	MERGE	SJ	R	UNDEF VARIABLE XDRFDA	
6	LOU-1299-40773	P	MERGE	SJ	R	ERROR IN PRCA*4.5*132/PT MERGE	
7	BHS-1299-10722	P	MERGE	SJ	R	Undefined Variablr XDRFDA/PT	
8	REN-1299-60580	P	MERGE	SJ	R	UNDEFINED ERROR WHEN RUNNING	
9	LAS-1299-60479	P	MERGE	WB	R	UNDEFINED XDRFDA	
10	BAY-1299-30472	P	MERGE	SJ	R	PRCA*4.5*132 - und variable	
11	BHS-1199-11411	P	MERGE	BC	R	Duplicate Patient Records Wont	
12	STX-0899-72510	P	IPM	WB	R	Pharmacy Problem/Merge	
13	STL-0799-40942	P	IPM	WB	R	PHARMACY PROBLEM	
14	MEM-0699-70037	P	IPM	SC	R	MERGE PROCESS	
15	NJH-0499-22879	P	IPM	SH	R	Trying to transfer entries of in	
16	PHI-0499-20742	P	IPM	BDK	R	Problem with merging of Pharmacy	

## 1.34.2 Routines

### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

### Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRDVAL1	12083072	15890107	**23,45**
XDRDVAL2	12849846	13113063	**23,34,36,42,45**
XDRMERG	16726829	16769102	**23,34,38,44,45**
XDRMERGA	15374059	15706076	**23,28,37,40,45**

List of preceding patches: 40, 42, 44

**Routine Information**

Routine Name: XDRDVAL1

Routine Checksum:

Routine Name: XDRMERG

Routine Checksum:

Routine Name: XDRDVAL2

Routine Checksum:

Routine Name: XDRMERGA

Routine Checksum:

### 1.34.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*45
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.35 XT\*7.3\*46 SEQ #35: Merge Fixes for Reports

**Category:** Routine

### 1.35.1 Description

**Warning:** No merge process should be active prior to installing this patch. Please ensure that all merge processes are completed.

This patch fixes problems reported in Merge reports.

- The "Check Merge Processes Status" option, CMP, has been reversed to display the latest process and progress backward until displaying the first one.
- The PRINTER/CRT problem has been resolved when attempting to review additional pairs after queuing Health Summaries to a printer.
- The Tally of Duplicate records report has been modified to accurately display records that are currently being merged (Status = "In Progress").
- The List File Entries report was modified to print Date of Birth.
- The manual process to add duplicate pairs was fixed to allow test patients to be added without running the threshold check.
- The Excludes data report was erroring if the problem occurred in Pharmacy because the UNIT DOSE node number was being used rather than the Field number.

NOIS Calls			Mar 15, 2000 12:26:03			Page: 1 of 1	
List: Temporary List						# of calls: 6	
#	Call ID	Status	Mod	Spec	Pri	Call Subject	
1	IST-0200-30530	P	MERGE	LLR	R	UNDEF VAR XDRUP	
2	MAD-0100-42635	P	MERGE	WB	R	Unable to Merge 1 Patient	
3	MIN-0599-40936	P	MERGE	LLR	R	PRINTER/CRT %ZIS PROBLEM	
4	DUB-1298-30690	P	MERGE	WB	R	Question re Tally Status Report	
5	MON-1098-50984	P	MERGE	SC	R	PROBLEM WITH OPTION TO LIST	
PRELIM							
6	IST-0998-31234	P	MERGE	LLR	R	Tally of Dup. Recds Report	

## 1.35.2 Routines

### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

### Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRDPRE1	5745643	5770888	**23,46**
XDRDUP	4515332	4440808	**23,46**
XDRDVAL1	15890107	15904436	**23,45,46**
XDRMERG2	12955087	12976602	**23,38,40,42,46**
XDRRMRG1	19644531	15958033	**23,29,46**
XDRVCHEK	4108217	4105715	**23,46**

List of preceding patches: 29, 42, 45

### Routine Information

Routine Name: XDRMERG2

Routine Checksum:

Routine Name: XDRDPRE1

Routine Checksum:

Routine Name: XDRDUP

Routine Checksum:

Routine Name: XDRRMRG1

Routine Checksum:

Routine Name: XDRVCHEK

Routine Checksum:

Routine Name: XDRDVAL1

Routine Checksum:



### 1.35.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*46
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.36 XT\*7.3\*39 SEQ #36: Toolkit and KIDS

**Category:** Routine

### 1.36.1 Description

This patch updates two Kernel tools to make use of the KIDS build file and adds menu options for them to the KIDS Edit and Distribution menu. The two routines are XTRUTL and XTVNUM.

XTVNUM will set the second line for each routine of a build. It loads the Version number for packages or adds the patch number for patches.

XTRUTL is used to provide the Routine Summary list that needs to be included in patch descriptions. It keeps the old checksum in the routine file in field CHECKSUM VALUE.

XTRUTL also has other entry points:

DO UPDATE^XTRUTL will update the checksum field for all the routines in a build. Used after a patch has been released to capture the current checksum values.

UD1^XTRUTL(routine) will update the checksum for just one routine.

SHOW^XTRUTL(routine) will show the saved checksum and the current checksum.

The patch also fixes an error that was reported in OR\*3.0\*10 PATCH TRACKER (#29934111) No quit value, at OUT+2^XPARD.

The patch also addresses NOIS ISL-1199-51331 Add Device file as a Parameter entity. To do this the patch has the DD for file 8989.5 field .01.

## 1.36.2 Routines

### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: ;;7.3;TOOLKIT;<patchlist>;Apr 25, 1995

### Checksum

Routine	Old	New	2nd Line
XPARD	7342389	7348385	**26,35,39**
XTRUTL	3298825	5471022	**20,39**
XTVNUM	9944358	9971672	**20,39**

List of preceding patches: 20, 35

Sites should use CHECK^XTSUMBLD to verify checksums.

### Routine Information

Routine Name: XPARD

Routine Checksum:

Routine Name: XTRUTL

Routine Checksum:

Routine Name: XTVNUM

Routine Checksum:

### 1.36.3 Installation

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: 'XT\*7.3\*39'
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. MSM-DOS Sites - Answer YES to the question 'Want to MOVE routines to other CPUs?'. Enter the names of your Compute and Print server(s). AXP Sites - Answer NO to this question.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.37 XT\*7.3\*48 SEQ #37: XINDEX Fixes

Category: Routine

### 1.37.1 Description

NOIS	Routine	Description
ISD-0200-72703	XINDEX51	If run against a build that deleted PRE/POST INIT routines it would get an error. Fixed to check that each routine exists first.
TAM-0599-32232 WPB-0498-32337	XINDEX9	Fixed to correctly ID this bad code.
HOU-0400-72028	XINDEX2	Fixed. Was looking at code as a pattern match.
Albany ISC	XINDEX7	Didn't allow use of two argument form of \$QUERY.

### 1.37.2 Routines

#### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: ;;7.3;TOOLKIT;<patchlist>;Apr 25, 1995

#### Checksum

Routine	Old	New	2nd Line
XINDEX	8423982	8426779	**20,27**
XINDEX2	5618431	5844260	**20,27,48**
XINDEX51	9238490	9410365	**20,48**
XINDEX7	7896227	7580120	**20,27,48**
XINDEX9	4321464	4637748	**20,27,48**

List of preceding patches: 27

Sites should use CHECK^XTSUMBLD to verify checksums.

#### Routine Information

Routine Name: XINDEX2

Routine Checksum:

Routine Name: XINDX51  
Routine Checksum:

Routine Name: XINDX9  
Routine Checksum:

Routine Name: XINDX7  
Routine Checksum:

Routine Name: XINDEX  
Routine Checksum:

### 1.37.3 Installation

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: 'XT\*7.3\*48'
  - No Options or Protocols need to be placed out-of-order.
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM Sites, after patch has installed, rebuild your map set.

## 1.38 XT\*7.3\*47 SEQ #38: Merge Fix for Variable Pointer

Associated patches:

(v)XT\*7.3\*44 must be installed BEFORE `XT\*7.3\*47'

(v)XT\*7.3\*46 must be installed BEFORE `XT\*7.3\*47'

**Category:** Routine

### 1.38.1 Description

**Warning:** Allow all current merge processes to finish prior to installing this patch.

This patch contains two fixes. The first one removes hard coded references to the Patient File so that this package can be used to merge other DHCP files together. The second fix is to re-point variable pointers if they are contained within a record that already has been repointed by the .01 field.

The following NOIS's are associated with this patch:

- STL-0600-42484
- STL-0700-41903
- STL-0800-40093

### 1.38.2 Routines

#### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRDPICK	17800586	17958423	**23,47**
XDRDQUE	9693871	9754400	**23,47**
XDRMERG1	11798514	11788230	**23,34,38,44,47**
XDRRMRG0	4444660	4996197	**23,47**
XDRRMRG1	15958033	16790150	**23,29,46,47**

List of preceding patches: 44, 46

**Routine Information**

Routine Name: XDRMERG1

Routine Checksum:

Routine Name: XDRRMRG0

Routine Checksum:

Routine Name: XDRRMRG1

Routine Checksum:

Routine Name: XDRDPICK

Routine Checksum:

Routine Name: XDRDQUE

Routine Checksum:

### 1.38.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*47
  - Logons DO NOT need to be inhibited.
  - You DO NOT need to rebuild menu's after the installation. Your regularly scheduled rebuild will be sufficient.
  - No Options or Protocols need to be placed out-of-order.

- Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
  - Want KIDS to INHIBIT LOGONs during the install? YES// NO
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'.
  7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.39 XT\*7.3\*49 SEQ #39: Merge CIRN/MPI Aware

Associated patches: (v)XT\*7.3\*47 must be installed BEFORE `XT\*7.3\*49'

Category: Routine

### 1.39.1 Description

**Warning:** Allow all current merge processes to finish prior to installing this patch.

This patch contains fixes to allow Patient Merge to be applied to CIRN/MPI systems. This patch will need to be install in conjunction with CIRN/MPI patch RG\*1.0\*6. The following changes were made to the Merge software:

1. Display of CMOR scores was added to the header on the Verify Duplicate Pairs option. In addition to displaying the score it will be recalculated prior to display to ensure that it is the most accurate (DBIA 2710). If no CMOR score exist then the word 'NULL' will appear as the score. A slight change was also made to the display to only display the first items (Name, SSN, Sex, etc...) once rather than twice as previous to this patch.
2. The prevention of MPI installed sites to execute the merge software was removed.
3. CMOR score for the newly merge records will be recalculated upon completion of the Merge process (DBIA 2710).
4. A check was added at the completion of each special processing to see if any more pairs remained.



## 1.39.2 Routines

### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

### Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRDSHOW	7608889	8792713	**23,49**
XDRDUP	4440808	4458264	**23,46,49**
XDRDVAL1	15904436	16039221	**23,45,46,49**
XDRMERG	16769102	16866915	**23,34,38,44,45,49**
XDRMERG0	15985004	17142652	**23,36,43,49**
XDRRMRG1	16790150	13842703	**23,29,46,47,49**

List of preceding patches: 43, 45, 47

### Routine Information

Routine Name: XDRDSHOW

Routine Checksum:

Routine Name: XDRDVAL1

Routine Checksum:

Routine Name: XDRMERG0

Routine Checksum:

Routine Name: XDRRMRG1

Routine Checksum:

Routine Name: XDRMERG

Routine Checksum:

Routine Name: XDRDUP

Routine Checksum:

### 1.39.3 Installation Instructions:

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*49
  - Logons DO NOT need to be inhibited.
  - You DO NOT need to rebuild menu's after the installation. Your regularly scheduled rebuild will be sufficient.
  - No Options or Protocols need to be placed out-of-order.
  - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
  - Want KIDS to INHIBIT LOGONs during the install? YES// NO
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.40 XT\*7.3\*51 SEQ #40: Merge Fix to Validation Routines

Category: Routine

### 1.40.1 Description

**Warning:** Allow all current merge processes to finish prior to installing this patch!

This patch fixes a bug in the validation routines. Files that were DINUMed and pointed to the Patient File were causing pairs to be removed from merge processes. Prior to this fix NVS and Site personnel were manually fixing the errors that were reported on the exception report. File 115 (DIETETICS PATIENT file) and file 214 (NURS PATIENT file) were two such files that were reporting exceptions when the merge should have been able to merge the records. Additionally a check was added to skip validation on .001 fields.

The following NOIS's are associated with this patch:

PTH-0900-21929

NYH-1000-11343

#### **Blood Bank Team Coordination**

Clearance - Oct 3, 2000

### 1.40.2 Routines

#### **Routine Summary**

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### **Checksums**

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XDRDVAL	8689665	8812388	**23,32,51**

List of preceding patches: 32

#### **Routine Information**

Routine Name: XDRDVAL

Routine Checksum:

### 1.40.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch.

2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*51
  - Logons DO NOT need to be inhibited.
  - You DO NOT need to rebuild menu's after the installation. Your regularly scheduled rebuild will be sufficient.
  - No Options or Protocols need to be placed out-of-order.
  - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
  - Want KIDS to INHIBIT LOGONs during the install? YES// NO
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.41 XT\*7.3\*52 SEQ #41: Error Editing Para. Def.

**Category:** Routine

### 1.41.1 Description

This patch fixes a bug when attempting to create a new parameter entry for a Parameter Definition that contains a Word Processing type.

The following NOIS's are associated with this patch: IND-0300-43083

**Blood Bank Team Coordination**

Clearance - Oct 25, 2000

### 1.41.2 Routines

#### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### Checksums

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XPARED2	6104530	6094939	**26,35,52**

List of preceding patches: 35

**Routine Information**

Routine Name: XPARED2

Routine Checksum:

### 1.41.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global

5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*52
  - Logons DO NOT need to be inhibited.
  - You DO NOT need to rebuild menu's after the installation. Your regularly scheduled rebuild will be sufficient.
  - No Options or Protocols need to be placed out-of-order.
  - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
  - Want KIDS to INHIBIT LOGONs during the install? YES// NO
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'.
7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.42 XT\*7.3\*53 SEQ #42: XURTLK Fix

**Category:** Routine

### 1.42.1 Description

This patch fixes a bug when logging response time and the last subscript exceeds 86400 seconds. Anything greater than 86400 will be logged in the 24th hour slot.

The following NOIS's are associated with this patch: CIN-0301-41499

#### **Blood Bank Team Coordination**

Clearance - May 4, 2001 Routine Summary:

### 1.42.2 Routines

#### **Routine Summary**

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### **Checksums**

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
XURTLK	5463315	5622442	**53**

List of preceding patches: <none>

**Routine Information**

Routine Name: XURTLK

Routine Checksum:

### 1.42.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*53
  - Logons DO NOT need to be inhibited.
  - You DO NOT need to rebuild menu's after the installation. Your regularly scheduled rebuild will be sufficient.
  - No Options or Protocols need to be placed out-of-order.
  - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
  - Want KIDS to INHIBIT LOGONs during the install? YES// NO

- Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'.
  7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.43 XT\*7.3\*54 SEQ #43: Merge Setup Error

**Category:** Routine

### 1.43.1 Description

This patch fixes a problem in the merge setup routines that Imaging's new file structure (Imaging Test Version 2.5) identified. Merge processes will get the following error if Imaging test version is installed:

ERROR: SETUP+60^XDRMERG:2, %DSM-E-NULLSUBSCR, Null subscript

After installation of this patch, any unsuccessful merges should be re-started and allowed to complete.

The following NOIS's are associated with this patch:

STL-0101-41728

POR-0301-50385

NTH-0301-71943

BHS-0401-10245

HIN-0501-40390

LIT-0501-71381

#### **Blood Bank Team Coordination**

Clearance - May 21, 2001

### 1.43.2 Routines

#### **Routine Summary**

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

#### **Checksums**

Checksums obtained using CHECK^XTSUMBLD

Routine	Checksum Before	Checksum After	Patch List
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Routine	Checksum Before	Checksum After	Patch List
XDRMERG	16866915	16925671	**23,34,38,44,45,49,54**

List of preceding patches: 49

#### **Routine Information**

Routine Name: XDRMERG

Routine Checksum:

### 1.43.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch (this does not include merge processes that are in the error status described above).
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*54
  - Logons DO NOT need to be inhibited.
  - You DO NOT need to rebuild menu's after the installation. Your regularly scheduled rebuild will be sufficient.
  - No Options or Protocols need to be placed out-of-order.
  - Want KIDS to Rebuild Menu Trees Upon Completion of Install?  
YES// NO

- Want KIDS to INHIBIT LOGONs during the install? YES// NO
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'
  7. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.
  8. Check for any unfinished merge processes. If any exist, restart them and monitor until they complete.

## 1.44 XT\*7.3\*19 SEQ #44: Fix/Update Response Time (RT) Options

**Category:** Routine, Data Dictionary

### 1.44.1 Description

This patch will correct problems reported with the Response Time (RT) options of the Kernel Toolkit. This patch includes all options and routines (excluding routine XURTL4) for the RT options. In addition, an updated data dictionary with no data for the RT RAWDATA (#3.094) file has been included.

**Note:** The Response Time (RT) options are NOT part of the Resource Usage Monitor (RUM) package. The Response Time (RT) options do NOT interface with the monitoring for the RUM package. Use the RUMManager Menu [KMPR RUM MANAGER MENU] to manage the RUM package.

#### NOIS fixed

NOIS	Description
COS-0596-40601	Fix 'Enable/Disable RT Logging' [XURTL] option to point to the LOG SYSTEM RT? field under the VOLUME SET multiple field in the KERNEL SYSTEM PARAMETERS file.
BRX-0598-10869	Fix the division by zero error in the 'Graphic RT Report Print' [XURTLPG] option.

## 1.44.2 Routines

### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: ;;7.3;TOOLKIT;<patchlist>;September 6, 2001

### Checksum

Routine	Old	New	2nd Line
XURTL	7949393	5734386	**19**
XURTL1	7623474	7983257	**19**
XURTL2	5911591	4634037	**19**
XURTL3	9463174	1339279	**19**
XURTLC	3647421	3261936	**19**
XURTLK	5622442	4991557	**53,19**

List of preceding patches: 53

Sites should use CHECK^XTSUMBLD to verify checksums.

### Routine Information

Routine Name: XURTL

Routine Checksum:

Routine Name: XURTL1

Routine Checksum:

Routine Name: XURTL2

Routine Checksum:

Routine Name: XURTL3

Routine Checksum:

Routine Name: XURTLC

Routine Checksum:

Routine Name: XURTLK

Routine Checksum:

### 1.44.3 Installation

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*19
  - Logons DO NOT need to be inhibited.
  - You DO NOT need to rebuild menu's after the installation. Your regularly scheduled rebuild will be sufficient.
  - No Options or Protocols need to be placed out-of-order.
  - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
  - Want KIDS to INHIBIT LOGONs during the install? YES// NO
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. DSM sites: After patch has installed, rebuild your map set if necessary.

## 1.45 XT\*7.3\*55 SEQ #45: Clean-Up Test an Option

Category: Other

### 1.45.1 Description

This patch changes XT-OPTION (Test an Option) to screen option items that contain XUPROG in their name. In addition, a warning to only give this option to programmers was added to the description.

The following NOIS's are associated with this patch: PRE-0301-62619

#### **Blood Bank Team Coordination**

Clearance - Oct 12, 2001

### 1.45.2 Routines

#### **Routine Summary**

N/A - This patch does not contain any routines.

### 1.45.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*55
  - Logons DO NOT need to be inhibited.
  - You SHOULD rebuild menu's after the installation. However, your regularly scheduled rebuild will do the job if you elect not to rebuild during installation.
  - XT-OPTION needs to be placed out-of-order..

- Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
- Want KIDS to INHIBIT LOGONs during the install? YES// YES
- Want to DISABLE Scheduled Options, Menu Options, and Protocols? YES

**XT-OPTION**

6. AXP Sites - Answer 'NO' to the question 'Want to MOVE routines to other CPUs?'.

**1.46 XT\*7.3\*56 SEQ #46: Merge Search Error**

**Category:** Routine

**1.46.1 Description**

This patch fixes an error that occurs in the search process when the threshold has been raised. Current Potential Duplicates are checked to see if they should still be considered Potential Duplicates under the new threshold value.

The following NOIS's are associated with this patch: BAY-0401-31993

Test Site: Bay Pines VAMC

**Blood Bank Team Coordination**

Clearance - Nov 15, 2001

**1.46.2 Routines****Routine Summary**

The following routines are included in this patch. The second line of each of these routines now looks like: <tab>;;7.3;TOOLKIT;\*\*[patch list]\*\*;Apr 25, 1995

**Checksums**

Checksums obtained using CHECK^XTSUMBLD

<b>Routine</b>	<b>Checksum Before</b>	<b>Checksum After</b>	<b>Patch List</b>
XDRDUP	4458264	4466320	**23,46,49,56**

List of preceding patches: 49

**Routine Information**

Routine Name: XDRDUP

Routine Checksum:

### 1.46.3 Installation Instructions

1. Users ARE allowed to be on the system during the installation. You DO NOT need to stop TaskMan. All active merge process should be allowed to complete prior to installing this patch (this does not include merge processes that are in the error status described above).
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
5. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*56
  - Logons DO NOT need to be inhibited.
  - You DO NOT need to rebuild menu's after the installation. Your regularly scheduled rebuild will be sufficient.
  - No Options or Protocols need to be placed out-of-order.
  - Want KIDS to Rebuild Menu Trees Upon Completion of Install? YES// NO
  - Want KIDS to INHIBIT LOGONs during the install? YES// NO
  - Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
6. If the routines were unmapped as part of step 2, they should be returned to the Mapped set once the installation has run to completion.

## 1.47 XT\*7.3\*60 SEQ #47: XPAR List Error

Associated patches: (v)XT\*7.3\*26 must be installed BEFORE `XT\*7.3\*60`

**Category:** Routine

### 1.47.1 Description

Test site: CPRS (ANDERSON,CURTIS)

NOIS	BUG	FIX
CHA-0701-32256 WRJ-0199-12466 UNY-0202-12683 ISL-0499-52452	Allocation errors in ENVAR^XPAR . This call returns all parameter instances.	An additional parameter was added to the call. The new parameter, if defined changes the first parameter from a return array to a closed global root to accept the data.  Make the new call is like this: D ENVAL^XPAR(\$NA(^TMP(\$J)),206,,XERR,1) Note the Closed Global Root in the first parameter and the new fifth parameter.
	Parameter entries in file 8989.5 for a individual user are not deleted when the user is terminated.	New entry point DELUSR^XPAR3(ien) that will be called from XUSTERM. This will start working when both patch XU*8*222 and XT*7.3*60 are installed.

### 1.47.2 Routines

#### Routine Summary

The following routines are included in this patch. The second line of each of these routines now looks like: ;;7.3;TOOLKIT;<patchlist>;Apr 25, 1995

#### Checksum

Routine	Old	New	2nd Line
XPAR	4083493	4223213	**26,60**
XPAR3	n/a	236816	**60**

List of preceding patches: 26



Sites should use CHECK^XTSUMBLD to verify checksums.

**Routine Information**

Routine Name: XPAR

Routine Checksum:

Routine Name: XPAR3

Routine Checksum:

### 1.47.3 Installation

1. Do not allow users to log in to the system during installation. If you accept a slight risk of jobs getting a CLOBER/EDITED error users and TaskMan may remain running. Otherwise stop all other jobs on the system.
2. DSM sites - Some of these routines are usually mapped, so you will need to disable mapping for the affected routines.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. Inhibit users from login into the system. (If you install when few users are on the system and the possibility of some CLOBER/NOSOURCE errors is acceptable, then users can stay on the system.) TaskMan can remain running.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
6. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: 'XT\*7.3\*60'
  - Logons DO NOT need to be inhibited.
  - You DO NOT need to rebuild menu's after the installation. Your regularly scheduled rebuild will be sufficient.
  - No Options or Protocols need to be placed out-of-order.
  - Want KIDS to Rebuild Menu Trees Upon Completion of Install?  
YES// NO

- Want KIDS to INHIBIT LOGONs during the install? YES// NO
- Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO

7. DSM Sites, after patch has installed, rebuild your map set.

## 1.48 XT\*7.3\*62 SEQ #48: Duplicate Record Merge/Merge Process Status Fix

**Category:** Routine, Print Template

### 1.48.1 Description

**Test Sites**

BOSTON VAMC, ALBANY (The MPI test account)

**NOIS:**

ISP-0801-N0191

BHS-1201-10737

MAR-0502-23075

This patch includes the print template BRIEF MERGE LIST and the routine XDRMERG2.

- This patch fixes the problem reported in the NOIS ISP-0801-N0191. The hard codes references to the Patient file (#2) were removed from the print template BRIEF MERGE LIST.
- This patch also fixes the problem reported in the NOIS BHS-1201-10737 and MAR-0502-23075.

The routine CHECK^XDRMERG2 was rewritten. The four arrays in the symbol table to store the data - name, start date and time, complete date and time, and status - have been replaced by the delimited array ^TMP.

**Blood Bank Team Coordination**

Clear - 3/27/02

### 1.48.2 Routines

**Routine Summary**

The following routine is included in this patch. The second line of each of the routine now looks like: <tab>;;7.3;TOOLKIT;\*\*[patches list]\*\*;Apr 25, 1995

**Checksums**

Checksums obtained using CHECK^XTSUMBLD

<b>Routine</b>	<b>Checksum Before</b>	<b>Checksum After</b>	<b>Patch List</b>
XDRMERG2	12976602	13710251	*23,38,40,42,46,62**

**Routine Information**

Routine Name: XDRMERG2

Routine Checksum:

**1.48.3 Installation Instructions**

1. Users ARE allowed to be on the system during the installation. However, it is recommended that the patch be installed during non-peak time. It will take less than a minute to install the patch, but you may queue the installation if you wish.
2. DSM/AXP sites - Review your mapped routine set. If the routine in the ROUTINE SUMMARY section is mapped, disable mapping for the affected routine.
3. Use the 'INSTALL/CHECK MESSAGE' option on the PackMan menu. This option will load the KIDS (Kernel Installation and Distribution System) package onto your system.
4. You DO NOT need to stop TaskMan or the background filers.
5. The patch has now been loaded into a transport global on your system. On the KIDS menu, select the 'Installation' menu and use the following options:
  - Verify Checksums in Transport Global
  - Print Transport Global
  - Compare Transport Global to Current System
  - Backup a Transport Global
6. Return to Programmers Prompt and use "D ^XPDKRN":
  - Select KIDS OPTION: Install
  - Install Package(s)
  - Select INSTALL NAME: XT\*7.3\*62
  - Want KIDS to INHIBIT LOGONs during the install? YES// NO

- Want to DISABLE Scheduled Options, Menu Options, and Protocols? NO
7. DSM/AXP Sites - Answer NO to the question "Want to MOVE routines to other CPUs?"
  8. If the routine was unmapped per STEP #2, the mapped set should be rebuilt once the installation has run to completion.

## 2.0 Contact Information

If you have any questions or comments regarding this distribution, please contact the ITSC Help Desk by:

**Phone:** (505) 248-4371 or  
(888) 830-7280

**Fax:** (505) 248-4199

**Web:** <http://www.rpms.ihs.gov/TechSupp.asp>

**Email:** [RPMSHelp@mail.ihs.gov](mailto:RPMSHelp@mail.ihs.gov)